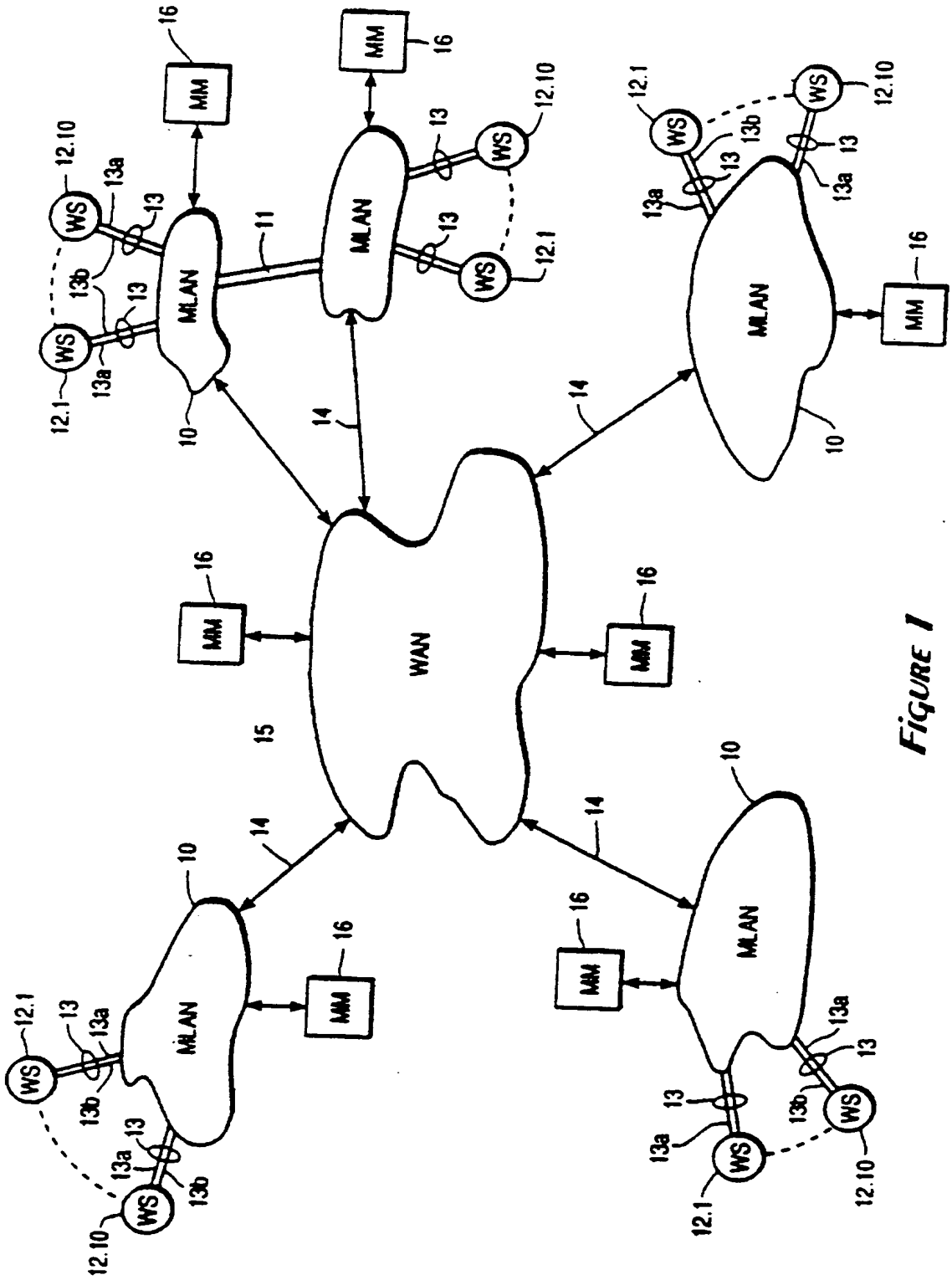

FIGURE 1

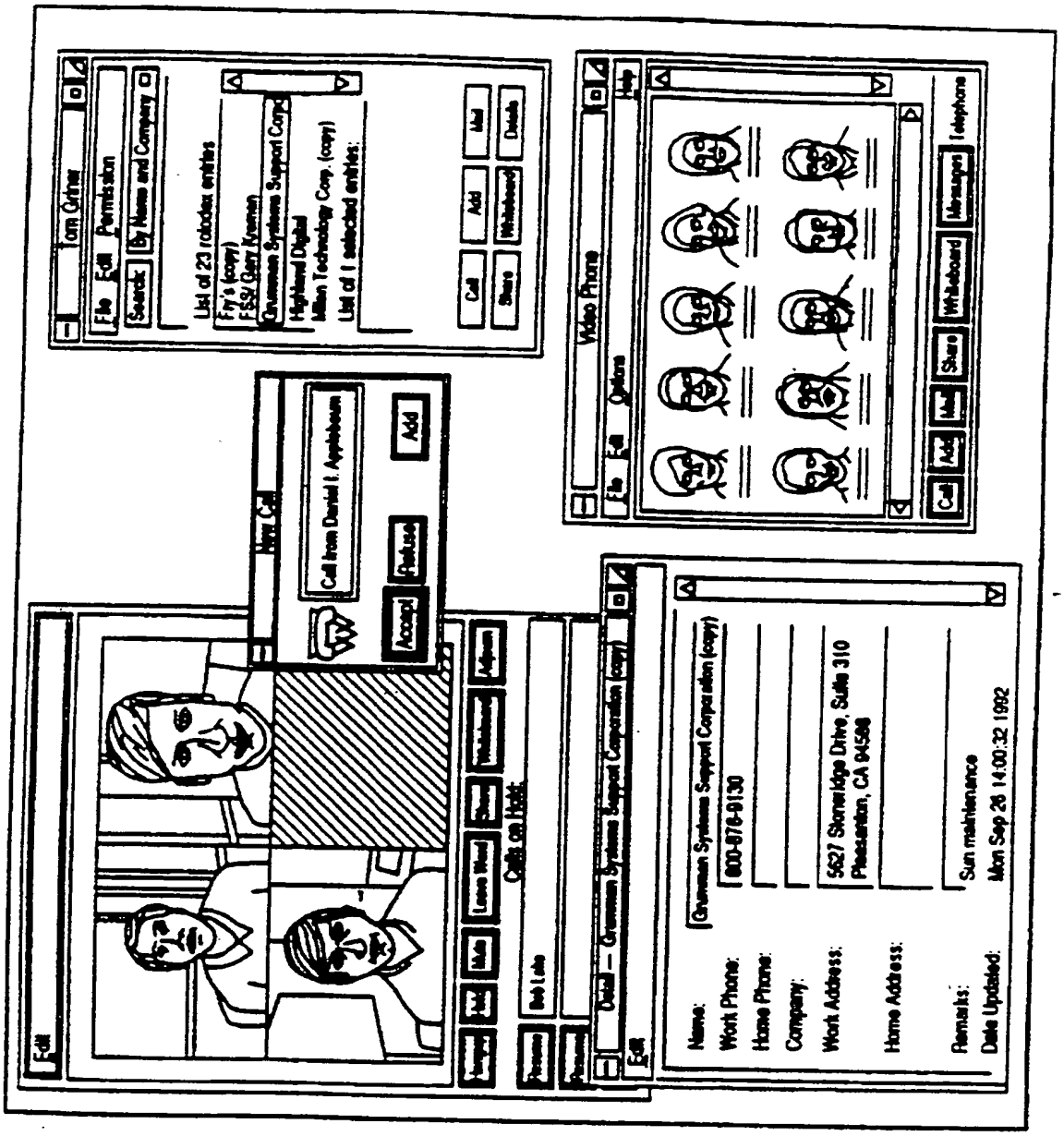
Tom Ortner
File Edit Permission
Search:
By Name and Company
List of 23 roboties entries
Fry's (copy)
FSS/ Dan'l Kvenen
Grumman Systems Support Corp
Highland Digital
Milan Technology Corp. (copy)
List of 1 selected entries:
Call
Add
Mail
Share
Whiteboard
Delete
Video Phone
File Edit Options Help
Call
Add
Mail
Share
Whiteboard
Messages
Telephone
New Call
Call from Daniel I. Applebaum
Accept
Reject
Add
Edit
Transfer
Talk
Hide
Leave Word
Phone
Whiteboard
Add-on
Caller on Hold:
Reason
Bob Lake
Password
Detail – Grumman Systems Support Corporation (copy)
Edit
Name:
Grumman Systems Support Corporation (copy)
Work Phone:
800-878-9130
Home Phone:
Company:
Work Address:
5627 Stoneridge Drive, Suite 310
Pleasanton, CA 94588
Home Address:
Remarks:
Sun maintenance
Date Updated:
Mon Sep 26 14:00:32 1992

FIGURE 2A

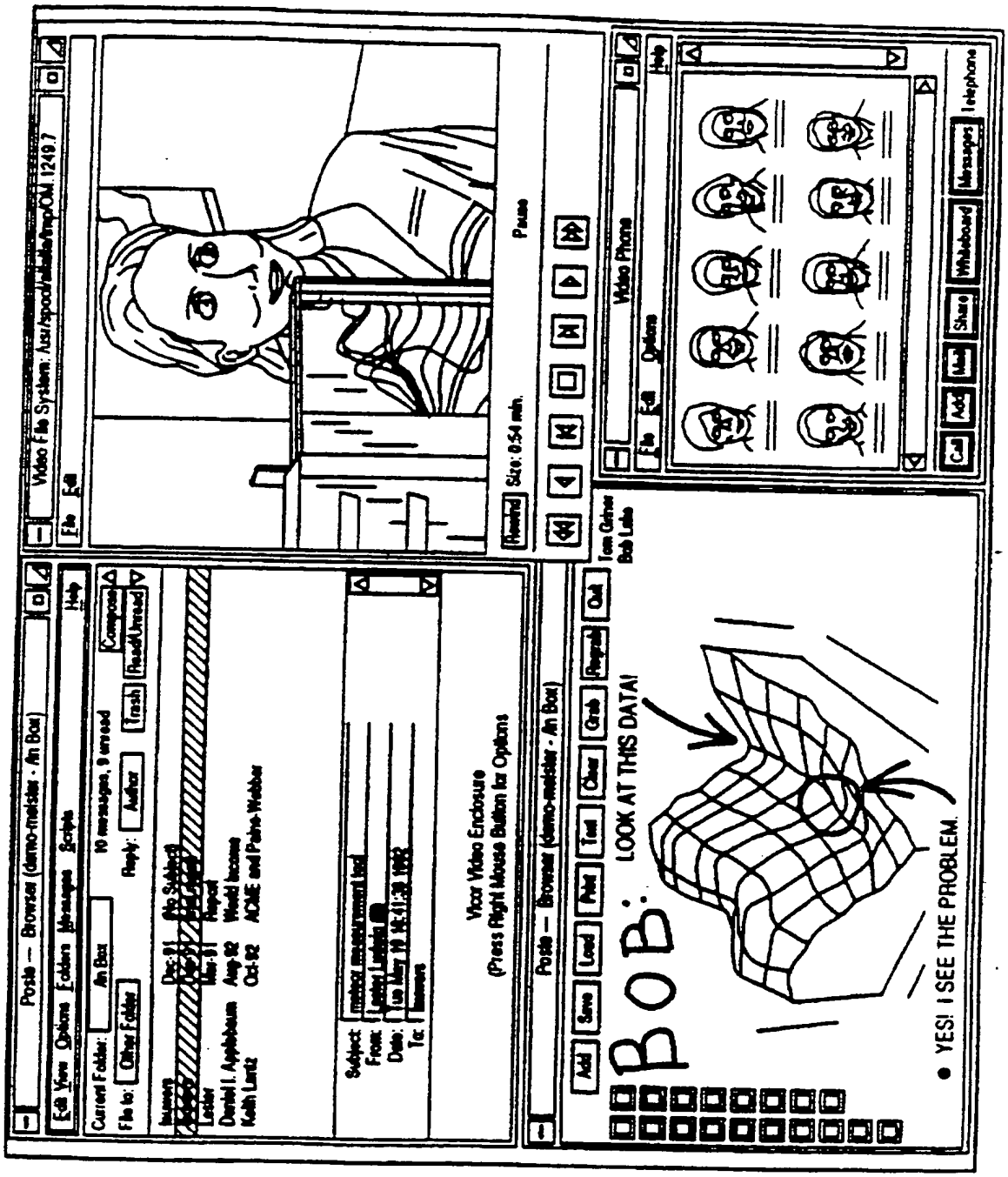
Video File System: /usr/spool/ftp/incoming/OM.1249.7
File Edit
Video Phone
File Edit Options
Call Add Mail Share Whiteboard Messages Telephone
Help
Pesto — Browser (demo-meister - An Box)
Edit View Options Folders Messages Scripts
Current Folder: An Box
10 messages, 9 unread
File to: Other Folder
Reply: Author
Trash
Compose
Read/Unread
Help
Inbox
Leslie
Daniel I. Applebaum
Keith Lantz
Dec 91 Re Sabbat
Mar 91 Report
Aug 92 World Income
Oct 92 ADAE and Petra Webber
Subject: motion measurement tool
From: Leslie Lukacs
Date: Tue May 19 16:41:39 1992
To: Interim
Vbox Video Enclosure
(Press Right Mouse Button for Options
Pesto — Browser (demo-meister - An Box)
Add Save Load Print Text Clear Grab Prepare Quit
Tom Gilmer
Bob Lido
BOB: LOOK AT THIS DATA!
• YES! I SEE THE PROBLEM.
Realtime
Size: 0.54 mb.
Pause

FIGURE 2B

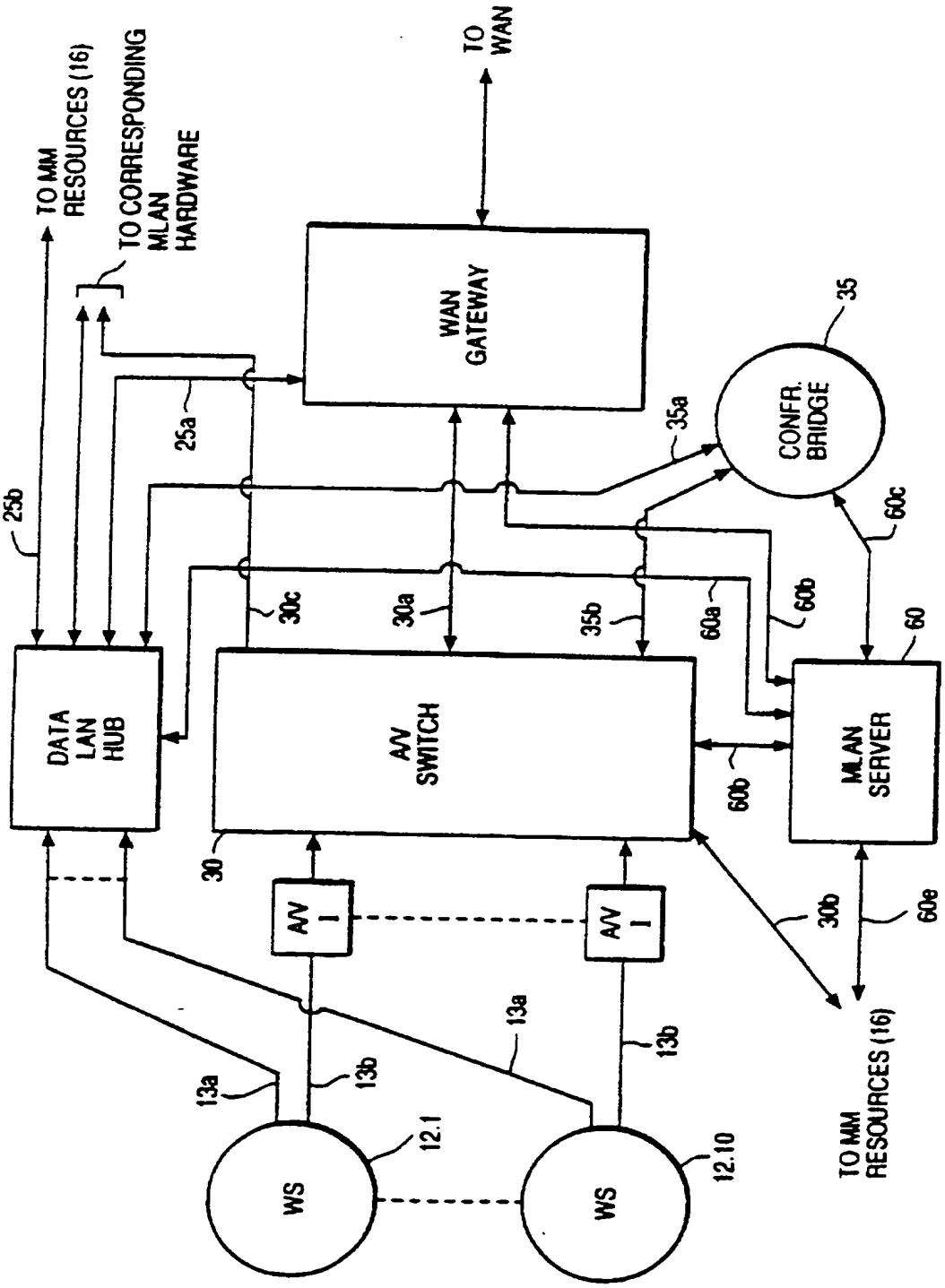
TO MM RESOURCES (16)
TO CORRESPONDING MLAN HARDWARE
TO WAN
WAN GATEWAY
CONFR. BRIDGE
35
35a
25a
25b
60c
30c
30a
35b
60a
60b
DATA LAN HUB
A/V SWITCH
MLAN SERVER
60
30
A/V
A/V
30b
60e
13a
13b
13a
13b
WS
12.1
WS
12.10
TO MM RESOURCES (16)

FIGURE 3

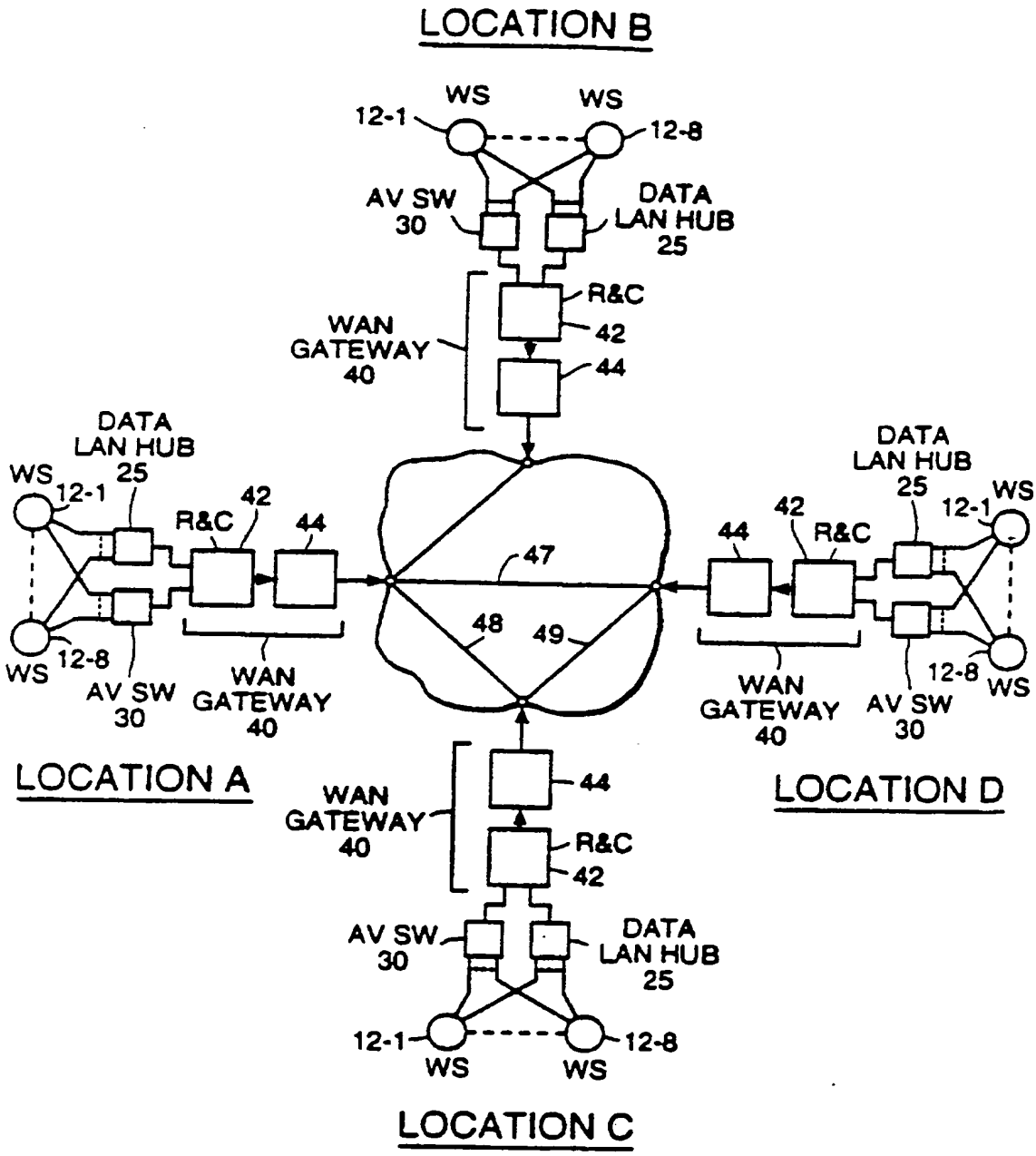
LOCATION B
WS
WS
12-1
12-8
AV SW
30
DATA
LAN HUB
25
R&C
42
WAN
GATEWAY
40
44
DATA
LAN HUB
25
WS
12-1
R&C
42
44
47
48
49
WS
12-8
AV SW
30
WAN
GATEWAY
40
LOCATION A
LOCATION D
WAN
GATEWAY
40
44
R&C
42
AV SW
30
DATA
LAN HUB
25
12-1
WS
WS
12-8
LOCATION C

FIGURE 4

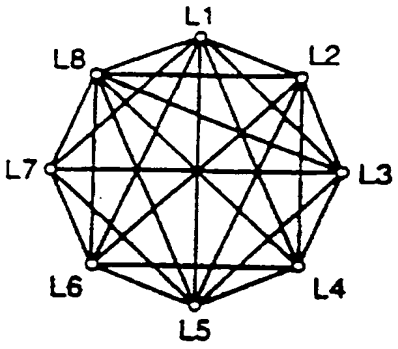

FIGURE 5

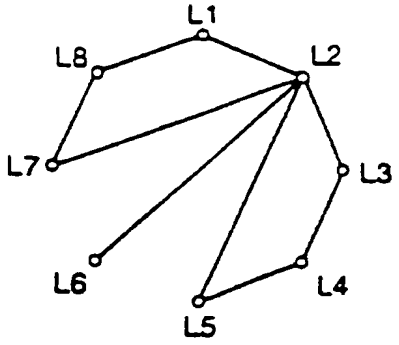

FIGURE 6

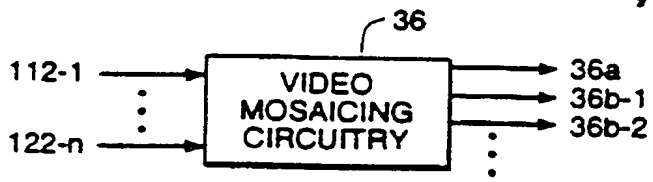

FIGURE 7

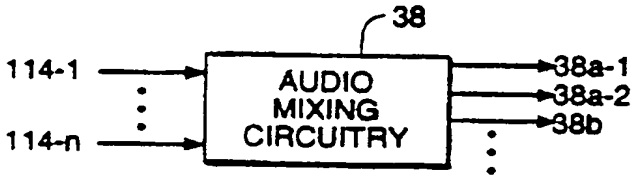

FIGURE 9

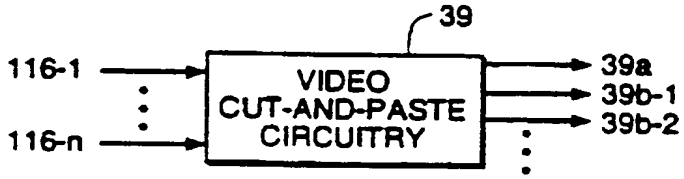

FIGURE 10

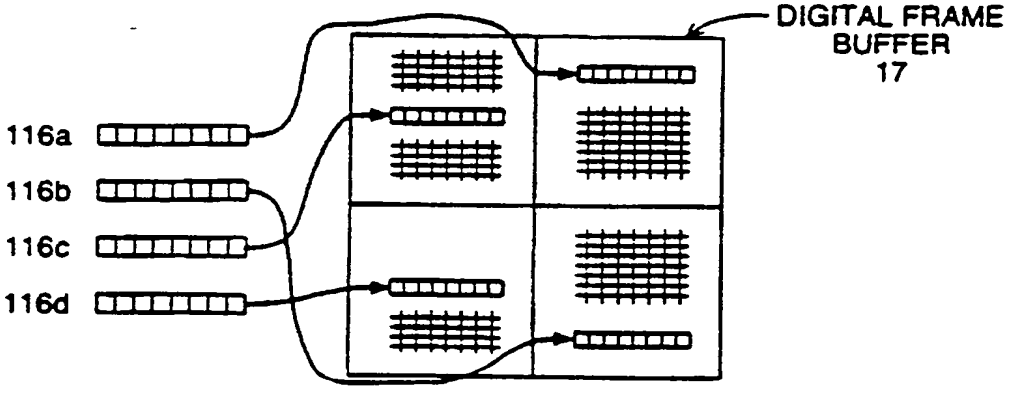

FIGURE 11

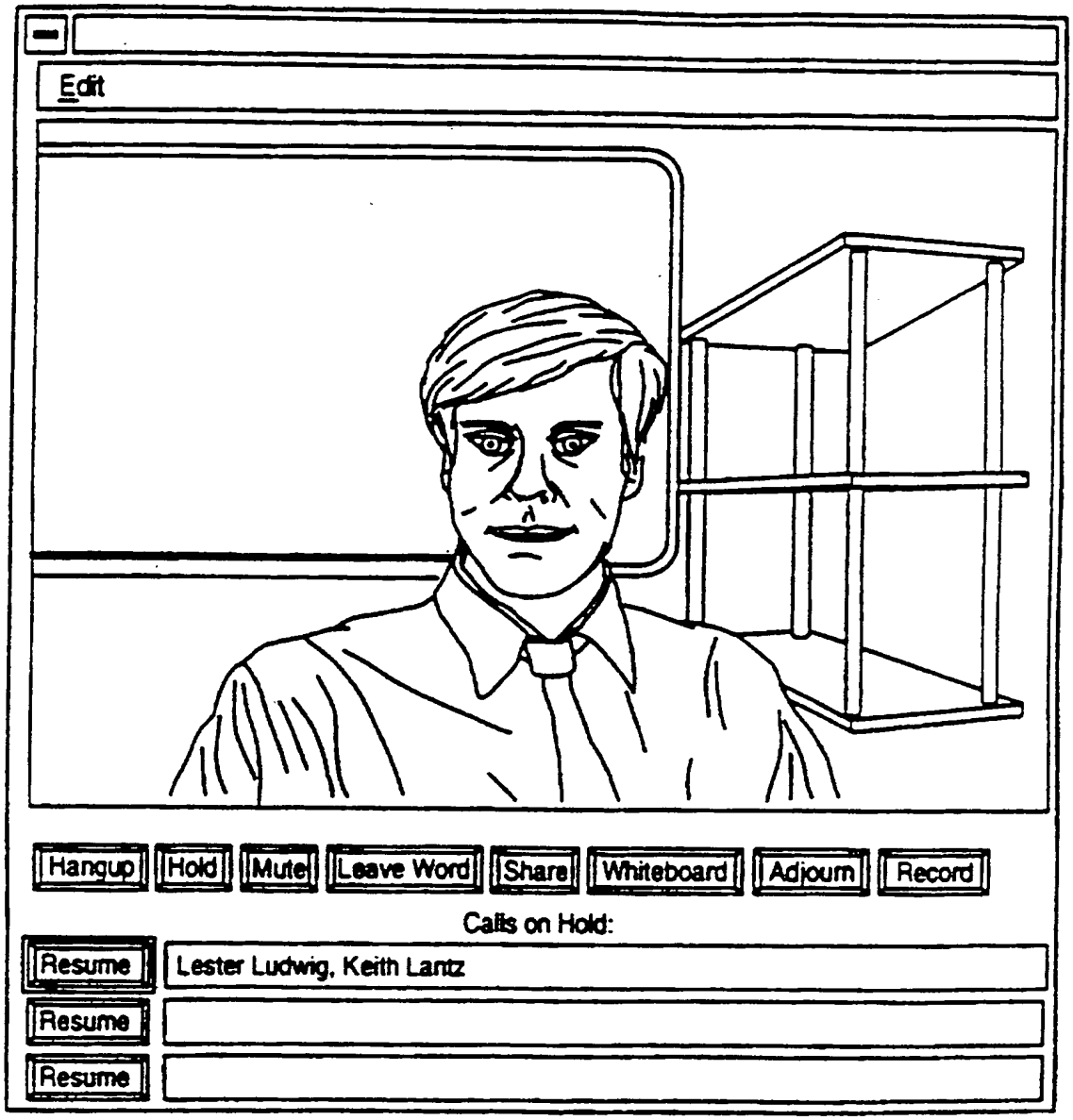
Edit
Hangup
Hold
Mute
Leave Word
Share
Whiteboard
Adjourn
Record
Calls on Hold:
Resume
Lester Ludwig, Keith Lantz
Resume
Resume

FIGURE 8A

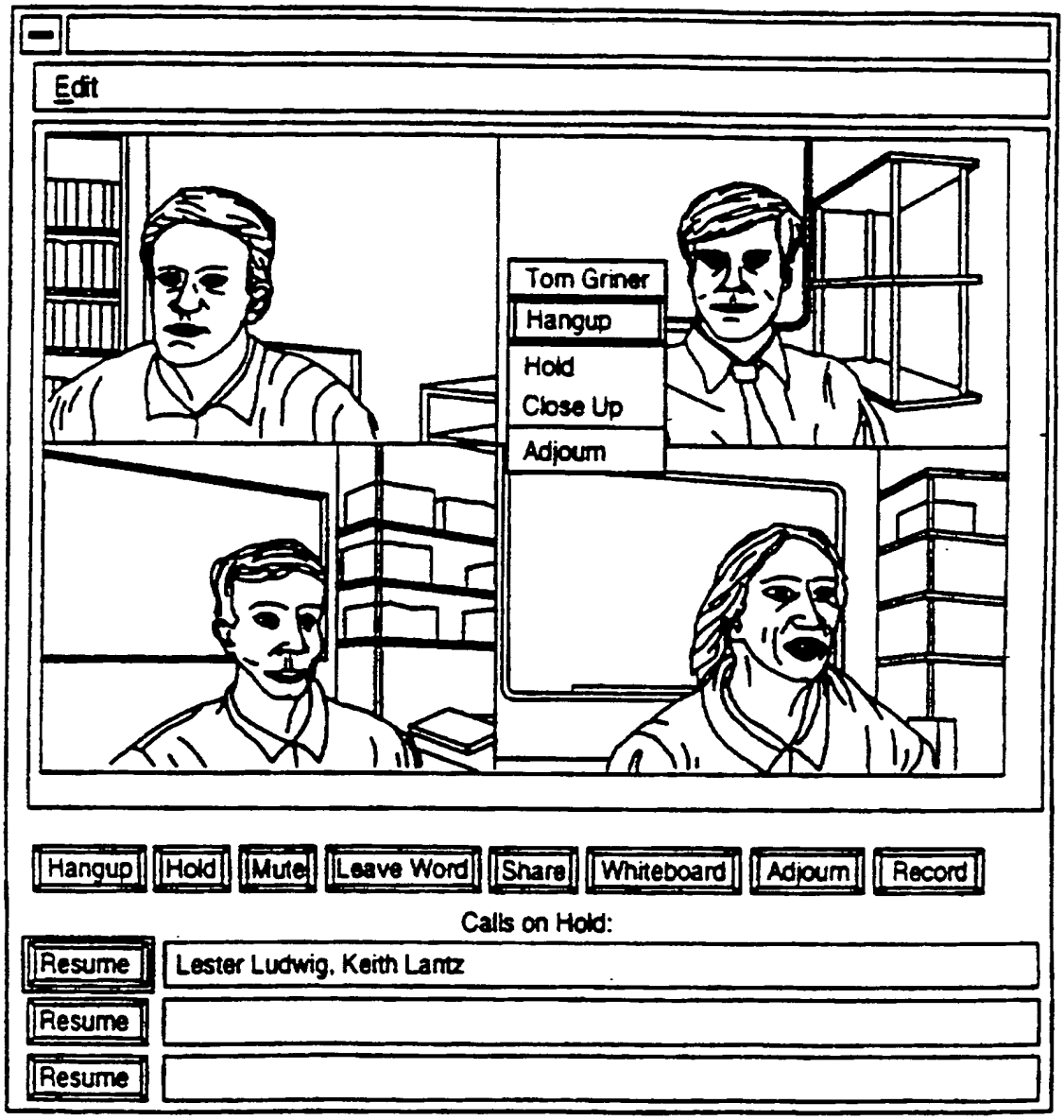
Edit
Tom Griner
Hangup
Hold
Close Up
Adjourn
Hangup
Hold
Mute
Leave Word
Share
Whiteboard
Adjourn
Record
Calls on Hold:
Resume
Lester Ludwig, Keith Lantz
Resume
Resume

FIGURE 8B

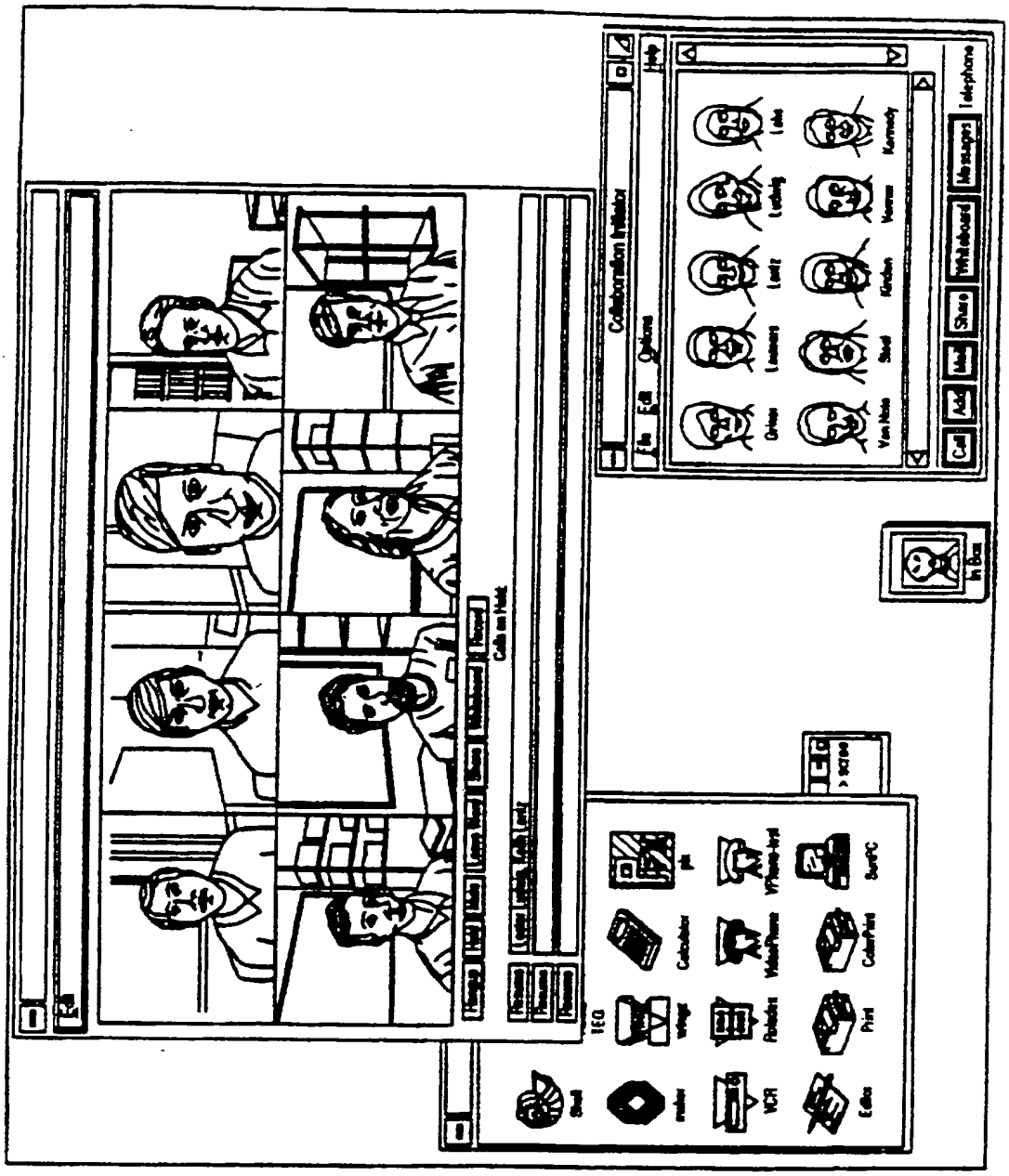

FIGURE 8C

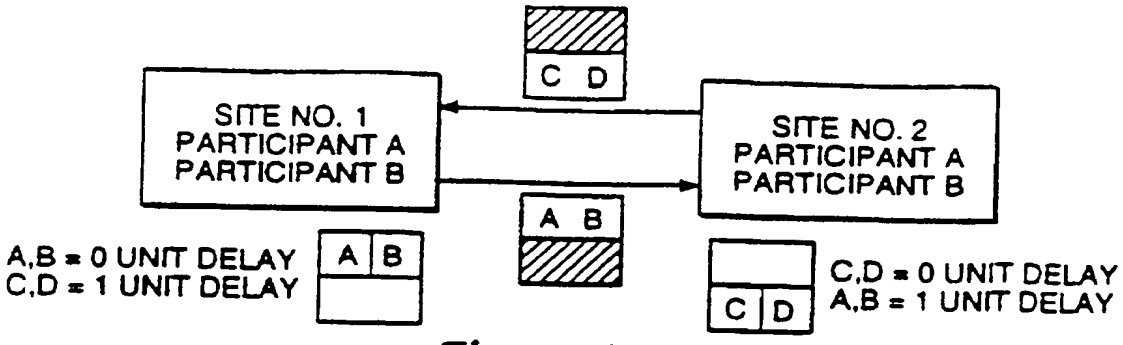

FIGURE 12A

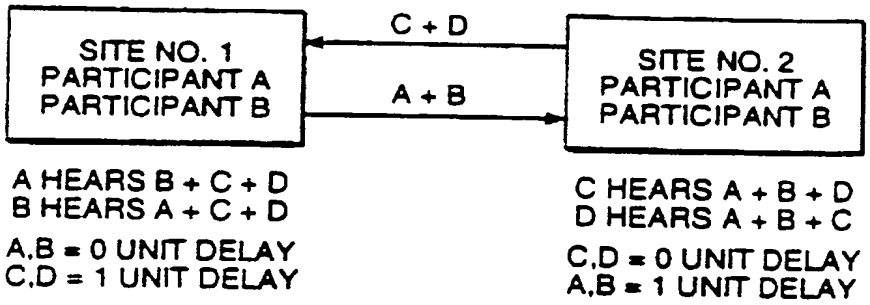

FIGURE 12B

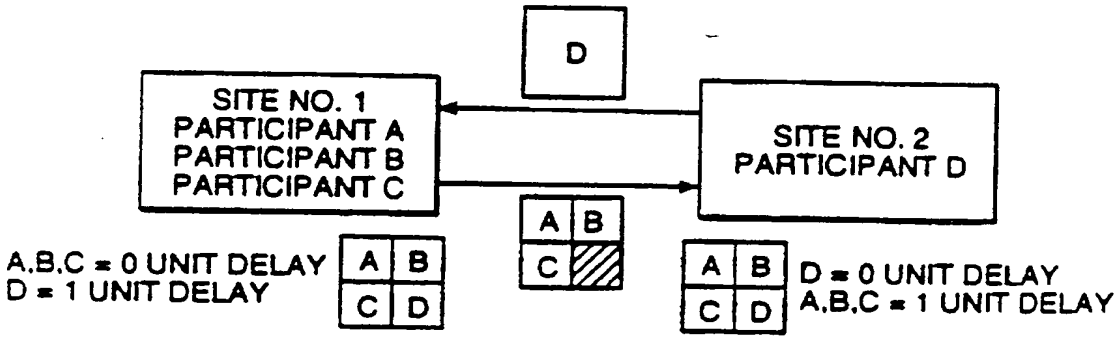

FIGURE 13A

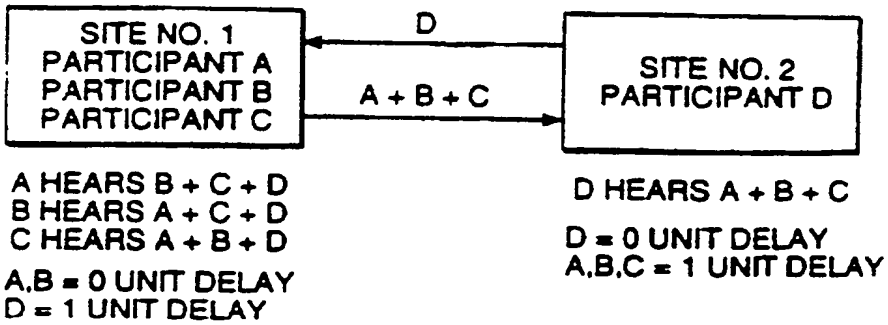

FIGURE 13B

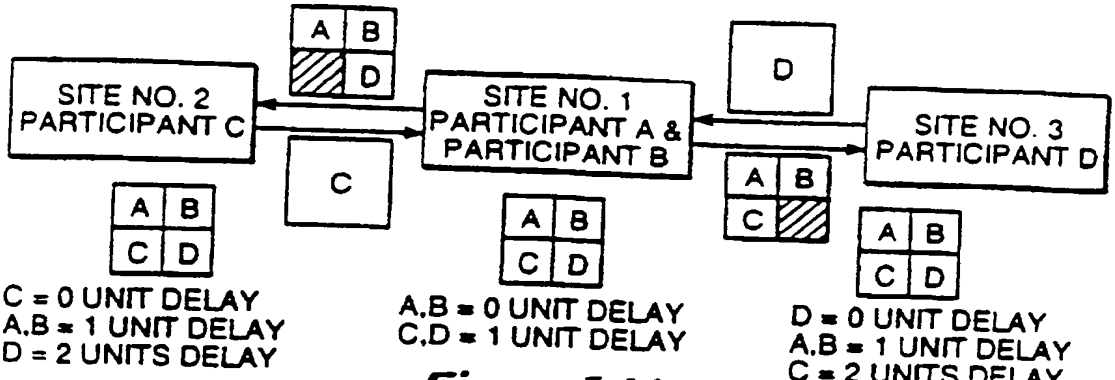

FIGURE 14A

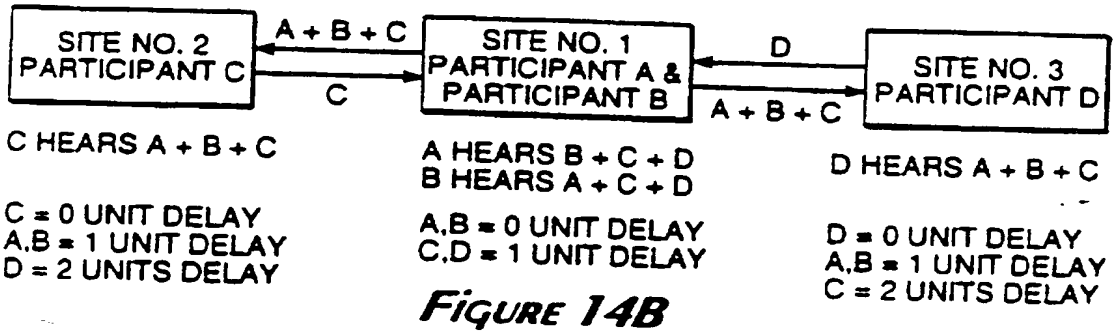

FIGURE 14B

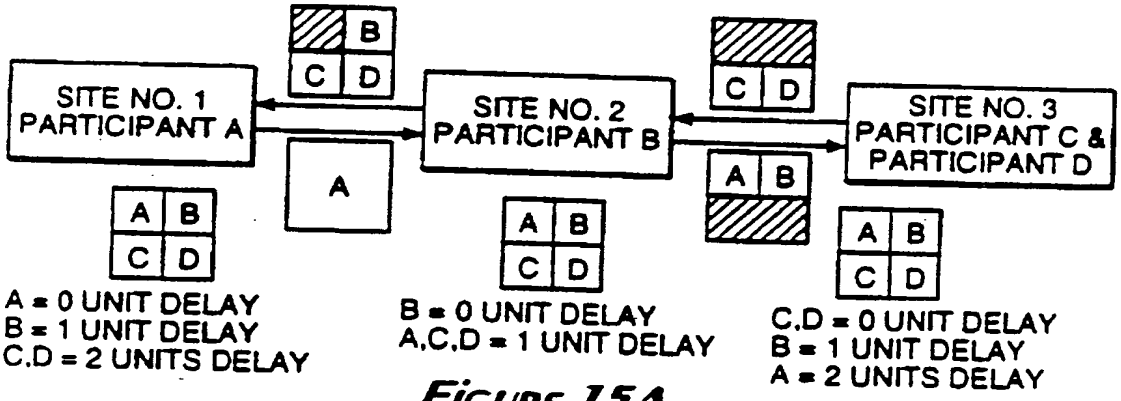

FIGURE 15A

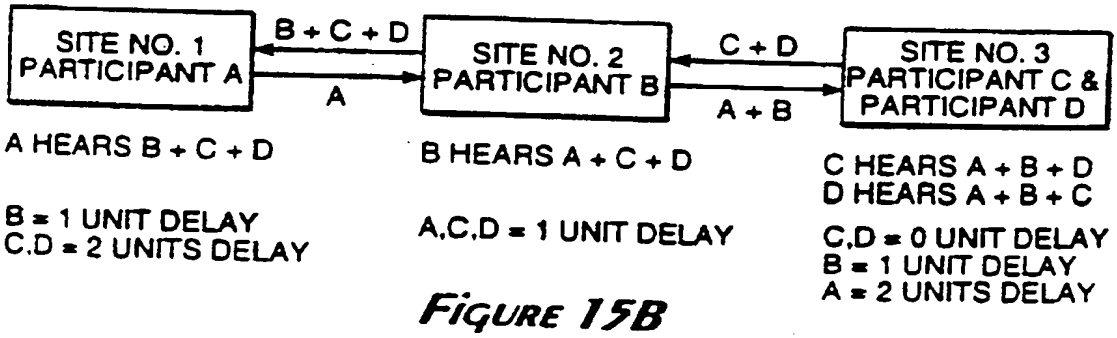

FIGURE 15B

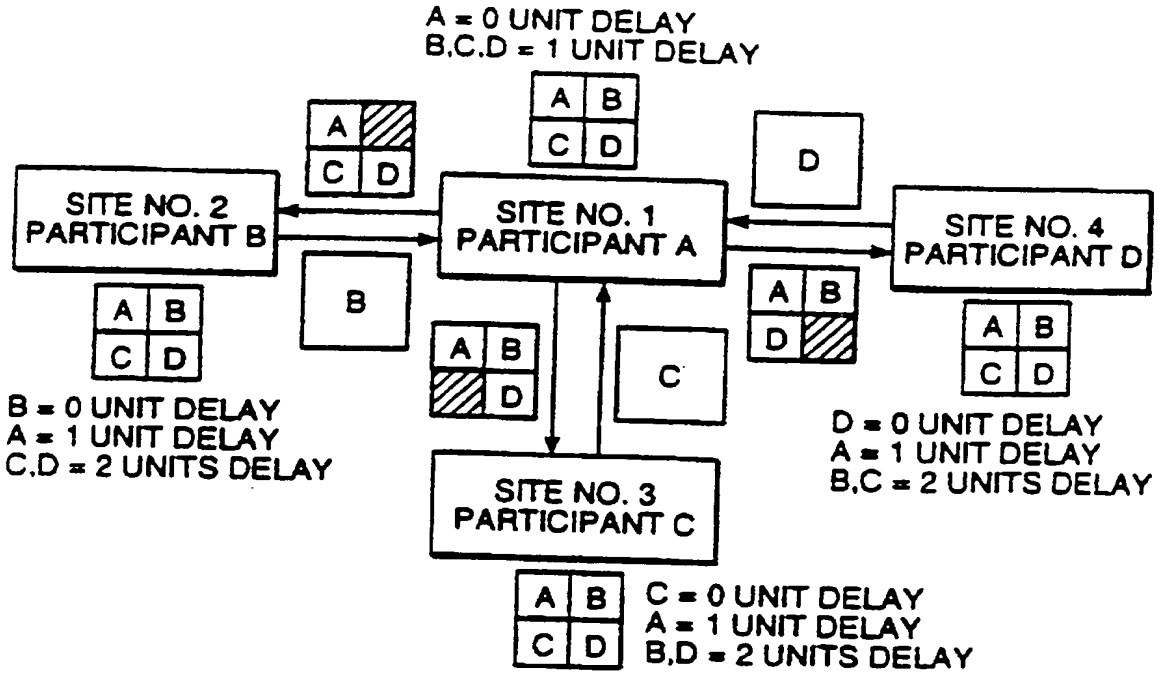
A = 0 UNIT DELAY
B,C,D = 1 UNIT DELAY
SITE NO. 1
PARTICIPANT A
SITE NO. 2
PARTICIPANT B
SITE NO. 3
PARTICIPANT C
SITE NO. 4
PARTICIPANT D
B = 0 UNIT DELAY
A = 1 UNIT DELAY
C,D = 2 UNITS DELAY
D = 0 UNIT DELAY
A = 1 UNIT DELAY
B,C = 2 UNITS DELAY
C = 0 UNIT DELAY
A = 1 UNIT DELAY
B,D = 2 UNITS DELAY

FIGURE 16

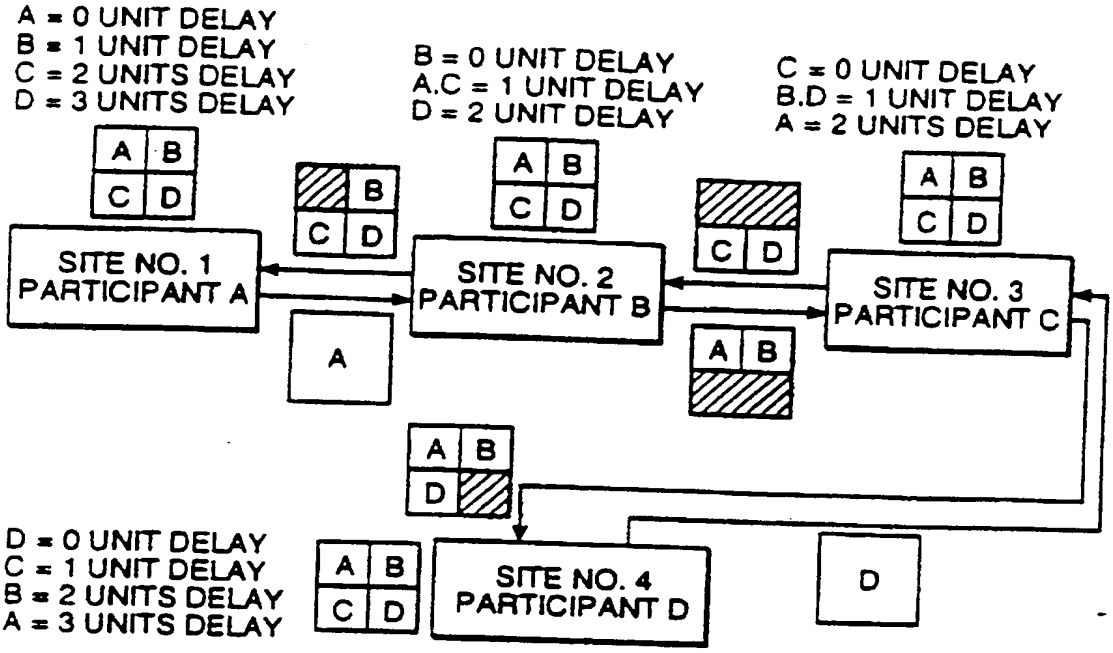

FIGURE 17A

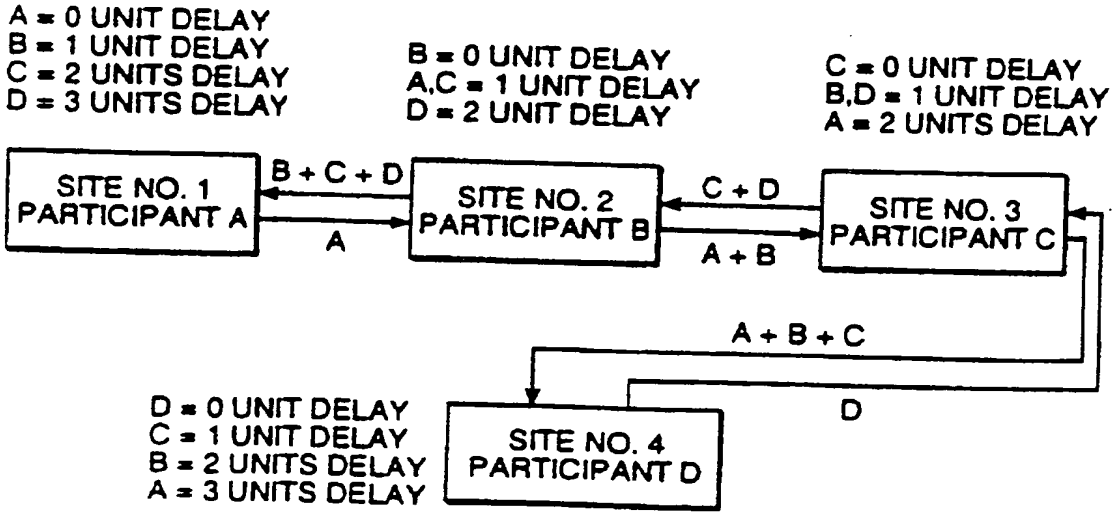

FIGURE 17B

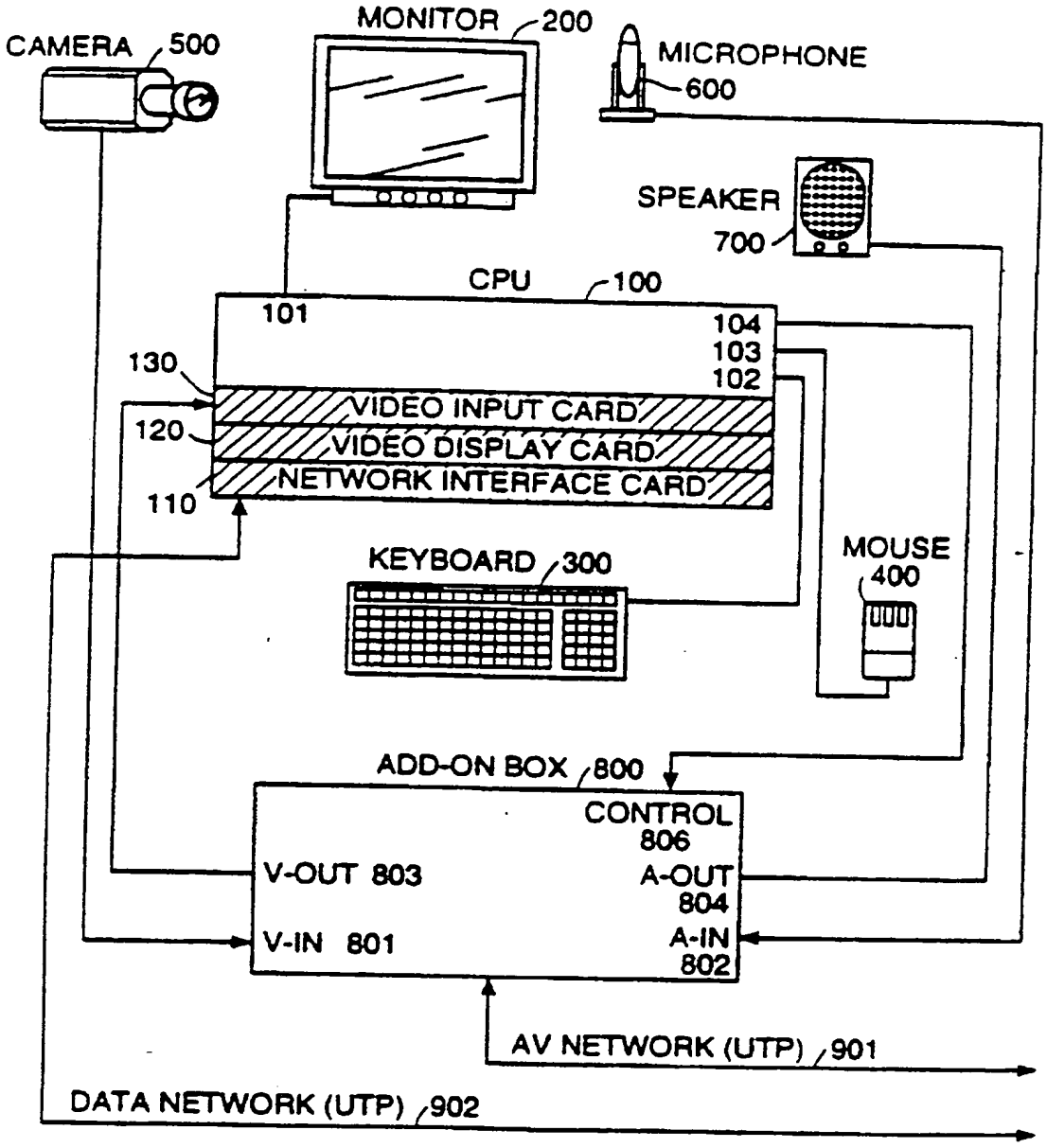
CAMERA 500
MONITOR 200
MICROPHONE 600
SPEAKER 700
CPU 100
101
104
103
102
130
VIDEO INPUT CARD
120
VIDEO DISPLAY CARD
NETWORK INTERFACE CARD
110
KEYBOARD 300
MOUSE 400
ADD-ON BOX 800
CONTROL 806
V-OUT 803
A-OUT 804
V-IN 801
A-IN 802
AV NETWORK (UTP) 901
DATA NETWORK (UTP) 902

FIGURE 18A

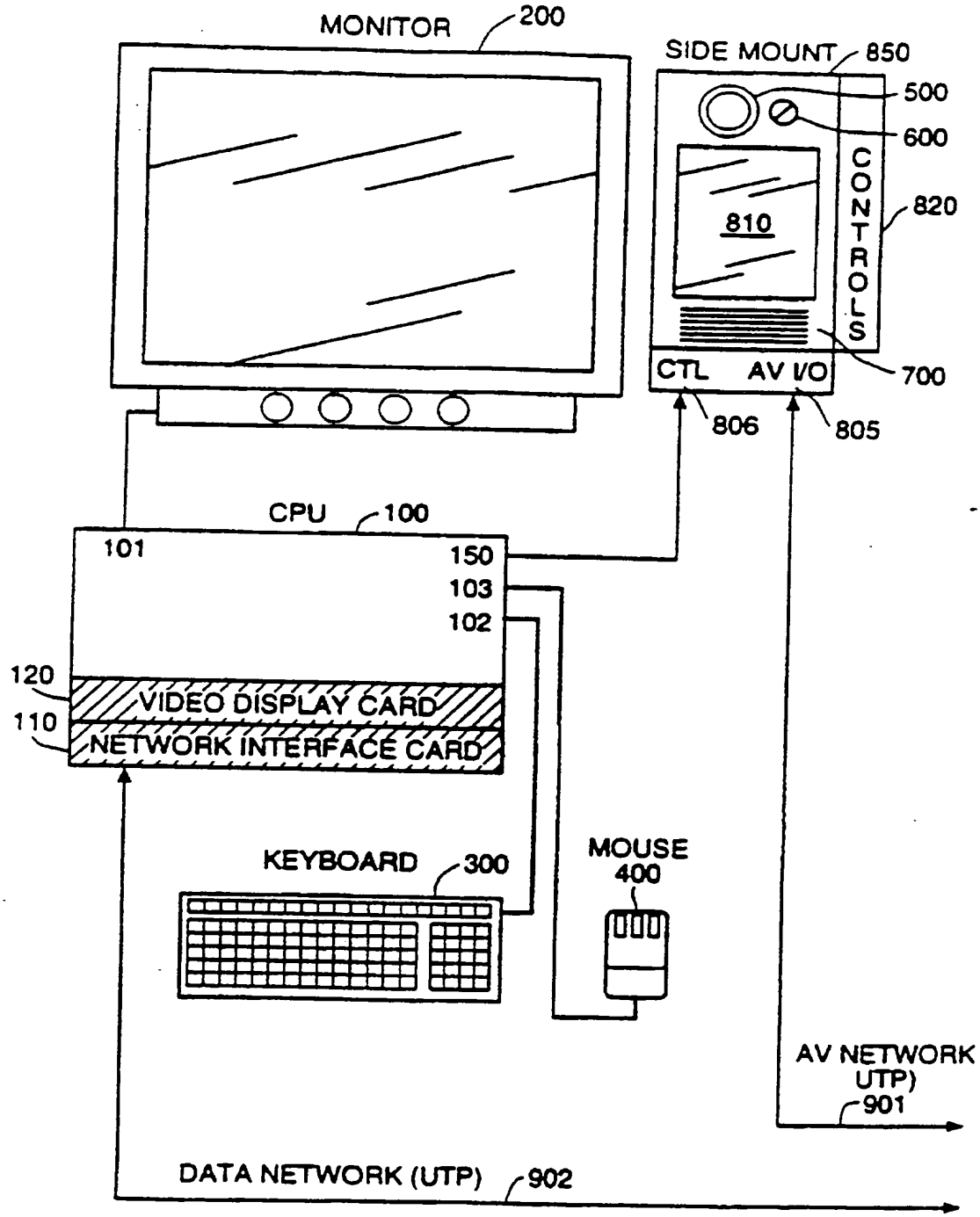
MONITOR
200
SIDE MOUNT
850
500
600
CONTROLS
820
810
CTL
AV I/O
700
806
805
CPU
100
101
150
103
102
120
VIDEO DISPLAY CARD
110
NETWORK INTERFACE CARD
KEYBOARD
300
MOUSE
400
AV NETWORK
UTP)
901
DATA NETWORK (UTP)
902

FIGURE 18B

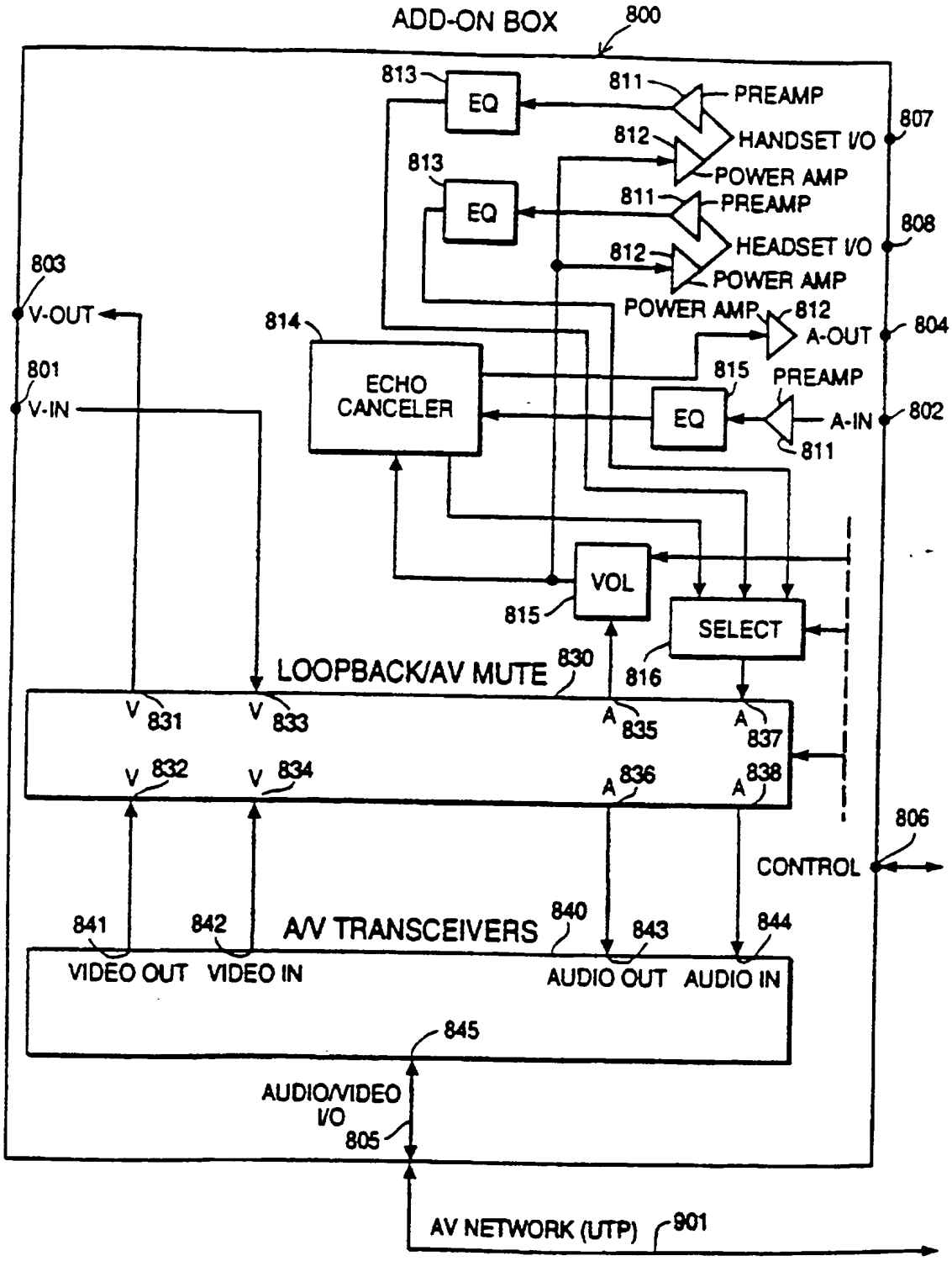
ADD-ON BOX
800
813
EQ
811
PREAMP
807
HANDSET I/O
812
POWER AMP
813
EQ
811
PREAMP
808
HEADSET I/O
812
POWER AMP
POWER AMP
812
A-OUT
804
803
V-OUT
814
ECHO CANCELER
815
EQ
PREAMP
801
V-IN
A-IN
802
811
VOL
815
SELECT
816
LOOPBACK/AV MUTE
830
V 831
V 833
A 835
A 837
V 832
V 834
A 836
A 838
806
CONTROL
841
842
A/V TRANSCEIVERS
840
843
844
VIDEO OUT
VIDEO IN
AUDIO OUT
AUDIO IN
845
AUDIO/VIDEO I/O
805
AV NETWORK (UTP)
901

FIGURE 19

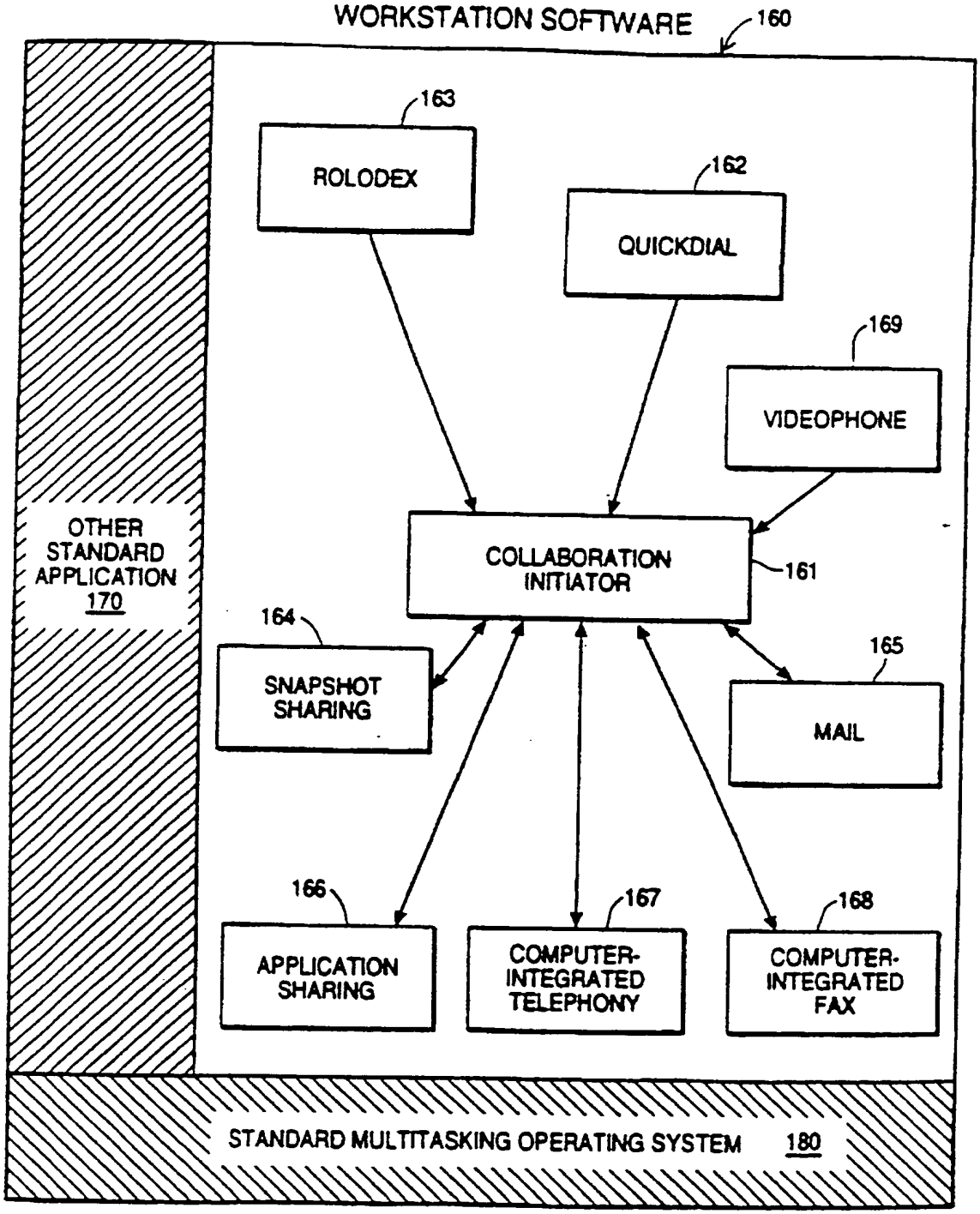
WORKSTATION SOFTWARE
160
163
ROLODEX
162
QUICKDIAL
169
VIDEOPHONE
OTHER STANDARD APPLICATION 170
COLLABORATION INITIATOR
161
164
SNAPSHOT SHARING
165
MAIL
166
APPLICATION SHARING
167
COMPUTER-INTEGRATED TELEPHONY
168
COMPUTER-INTEGRATED FAX
STANDARD MULTITASKING OPERATING SYSTEM 180

FIGURE 20

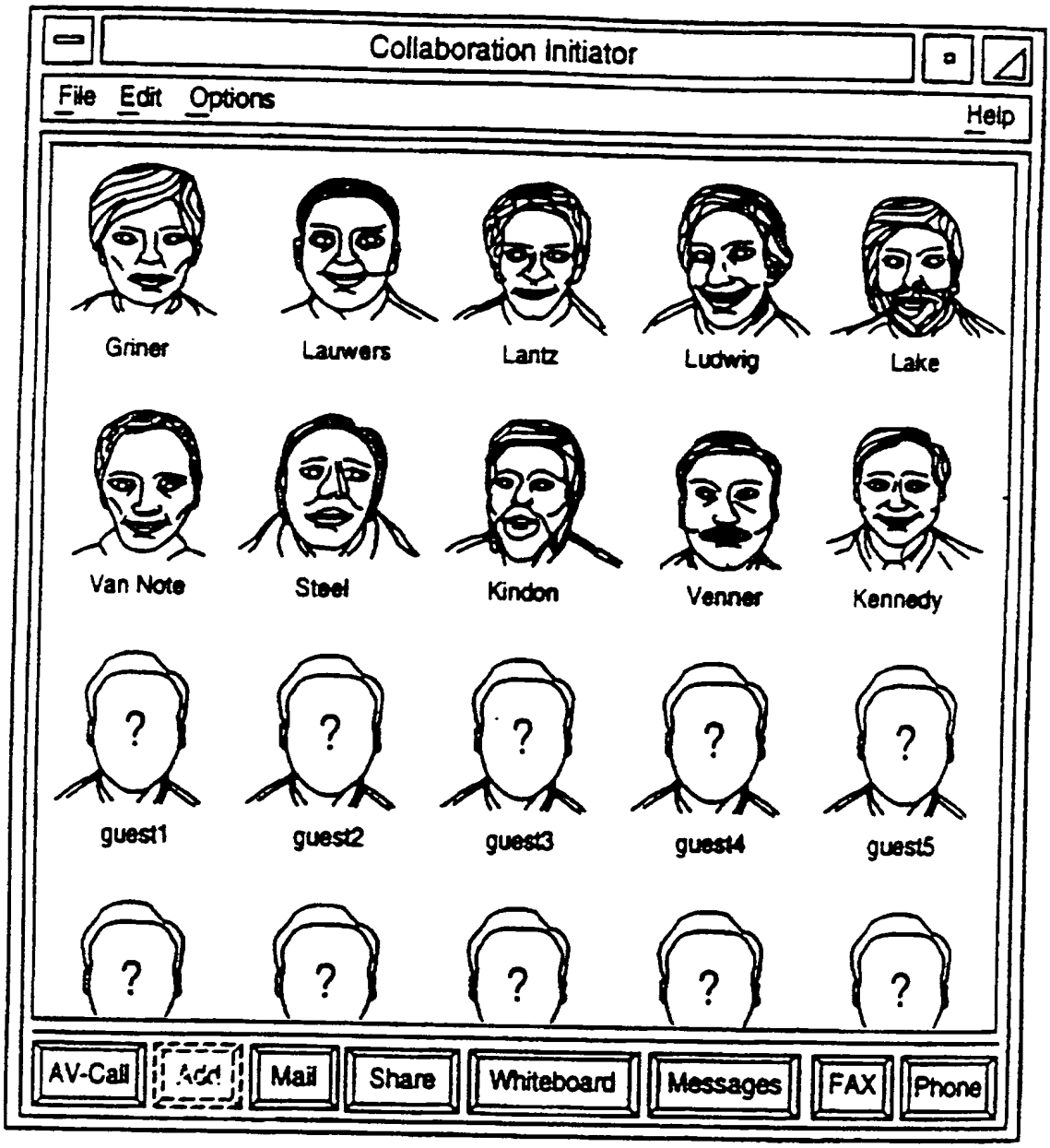
Collaboration Initiator
File Edit Options
Help
Griner
Lauwers
Lantz
Ludwig
Lake
Van Note
Steel
Kindon
Venner
Kennedy
guest1
guest2
guest3
guest4
guest5
AV-Call
Add
Mail
Share
Whiteboard
Messages
FAX
Phone

FIGURE 22

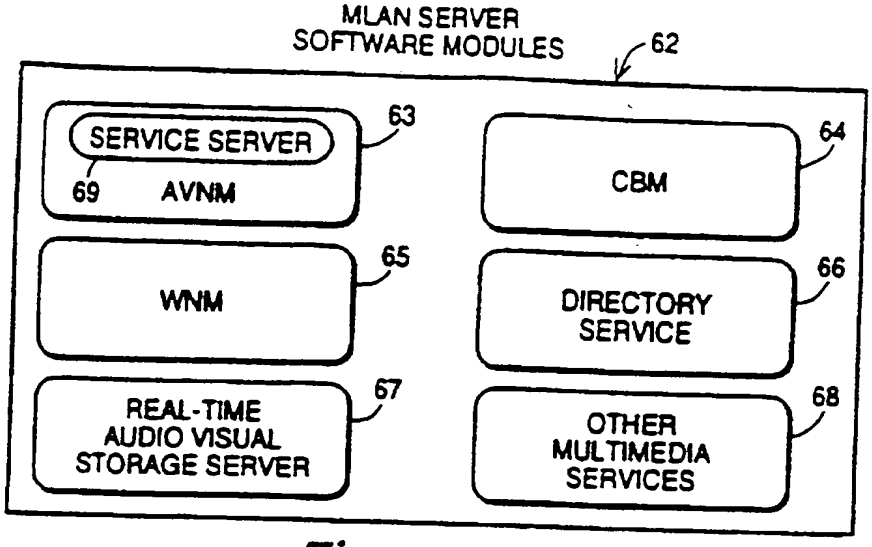

FIGURE 21

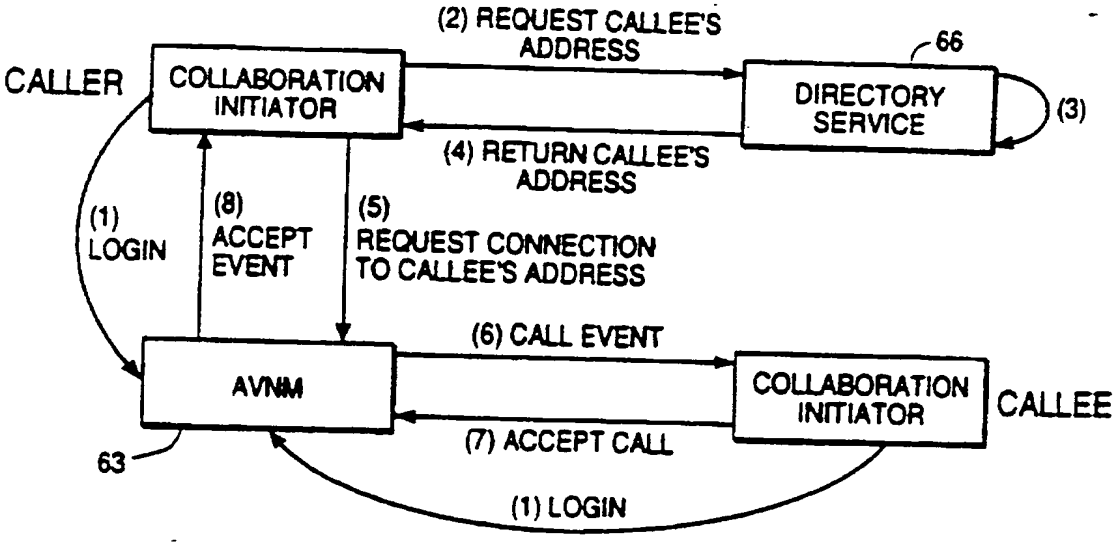

FIGURE 23

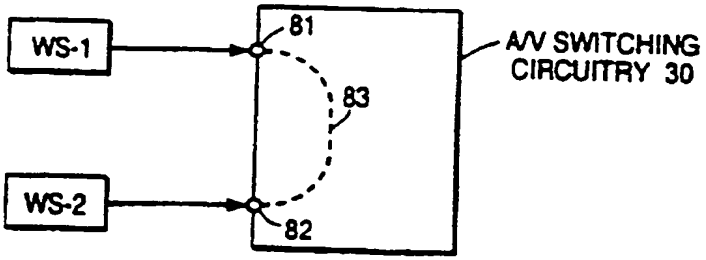

FIGURE 24

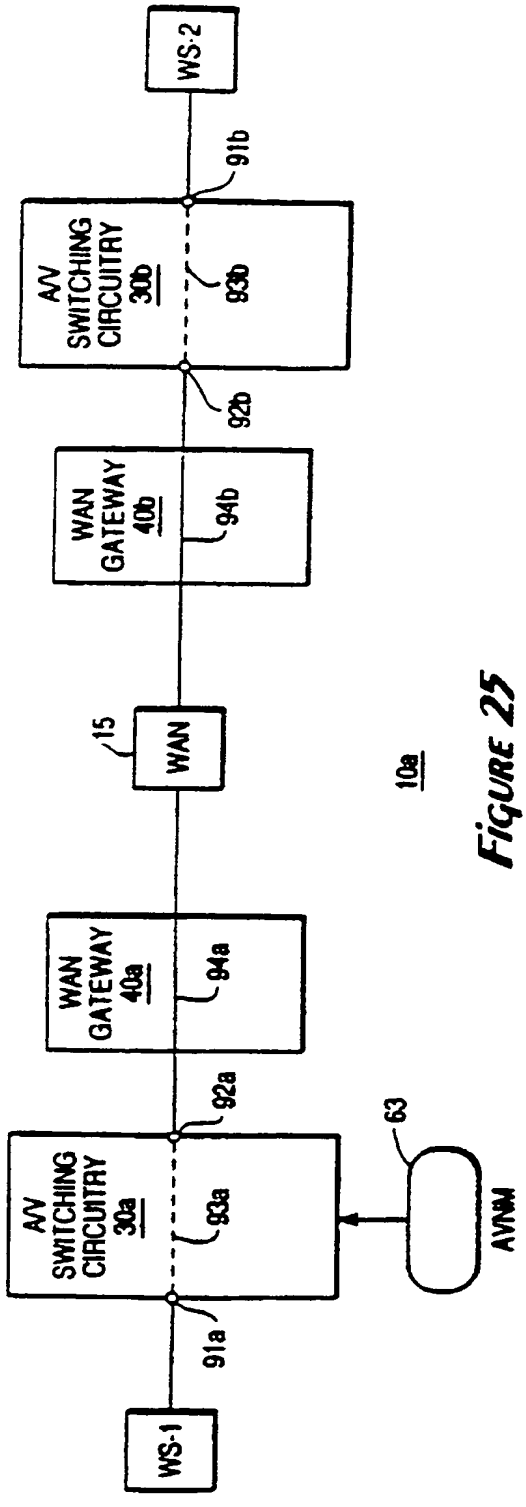

FIGURE 25

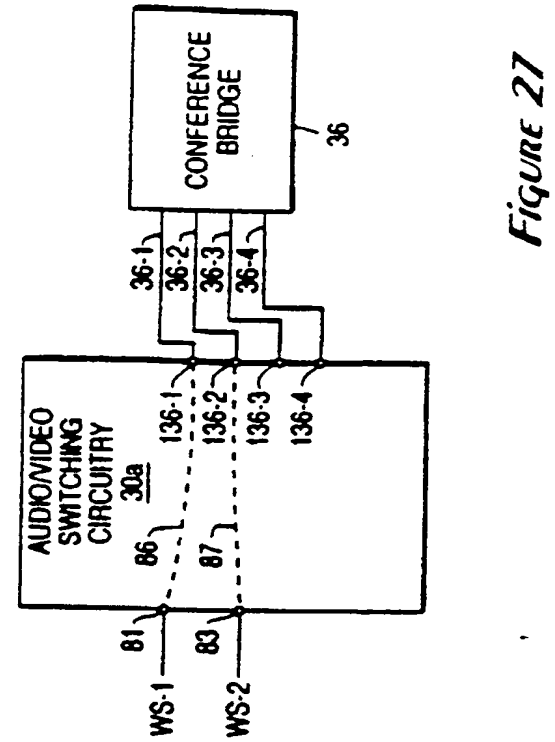

FIGURE 27

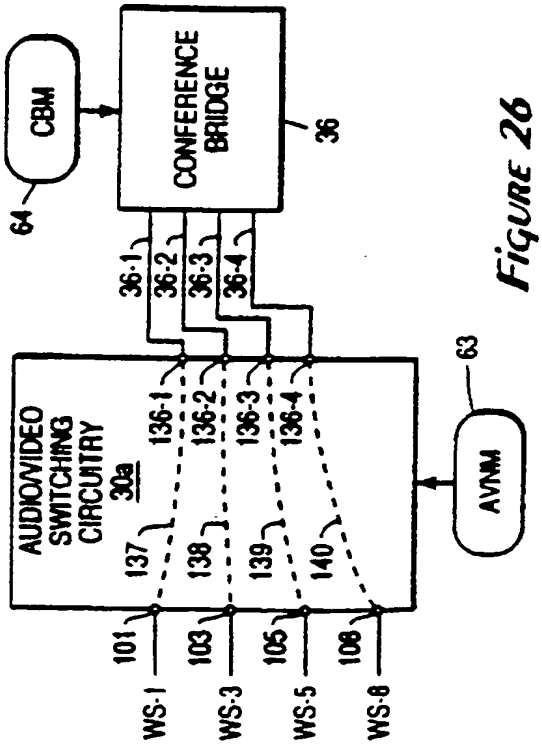

FIGURE 26

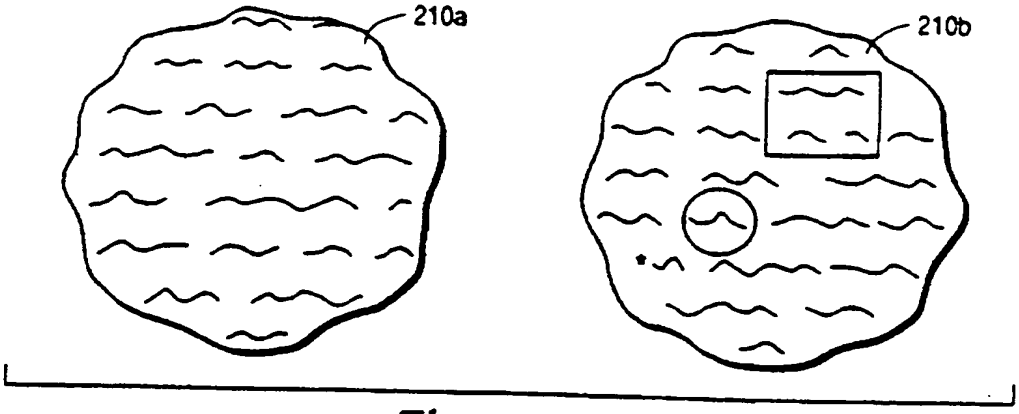

FIGURE 28

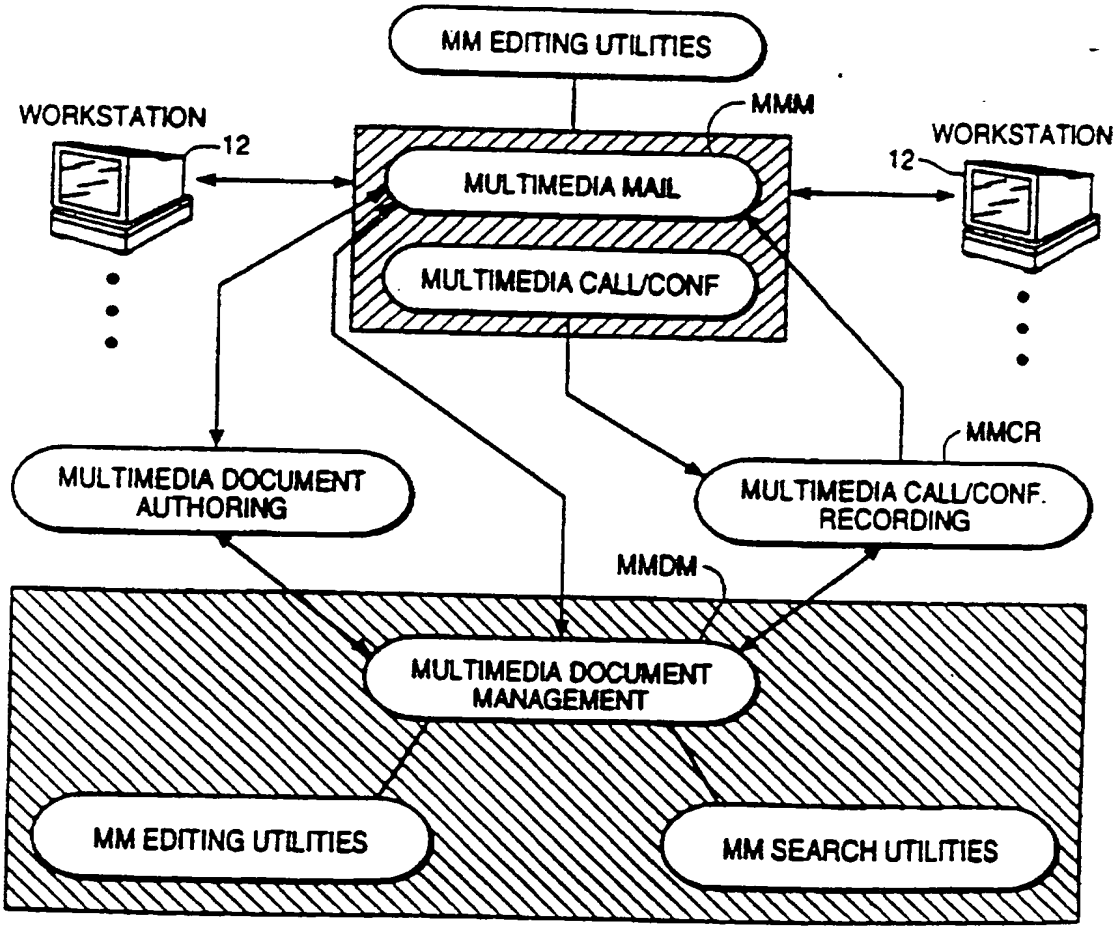

FIGURE 29

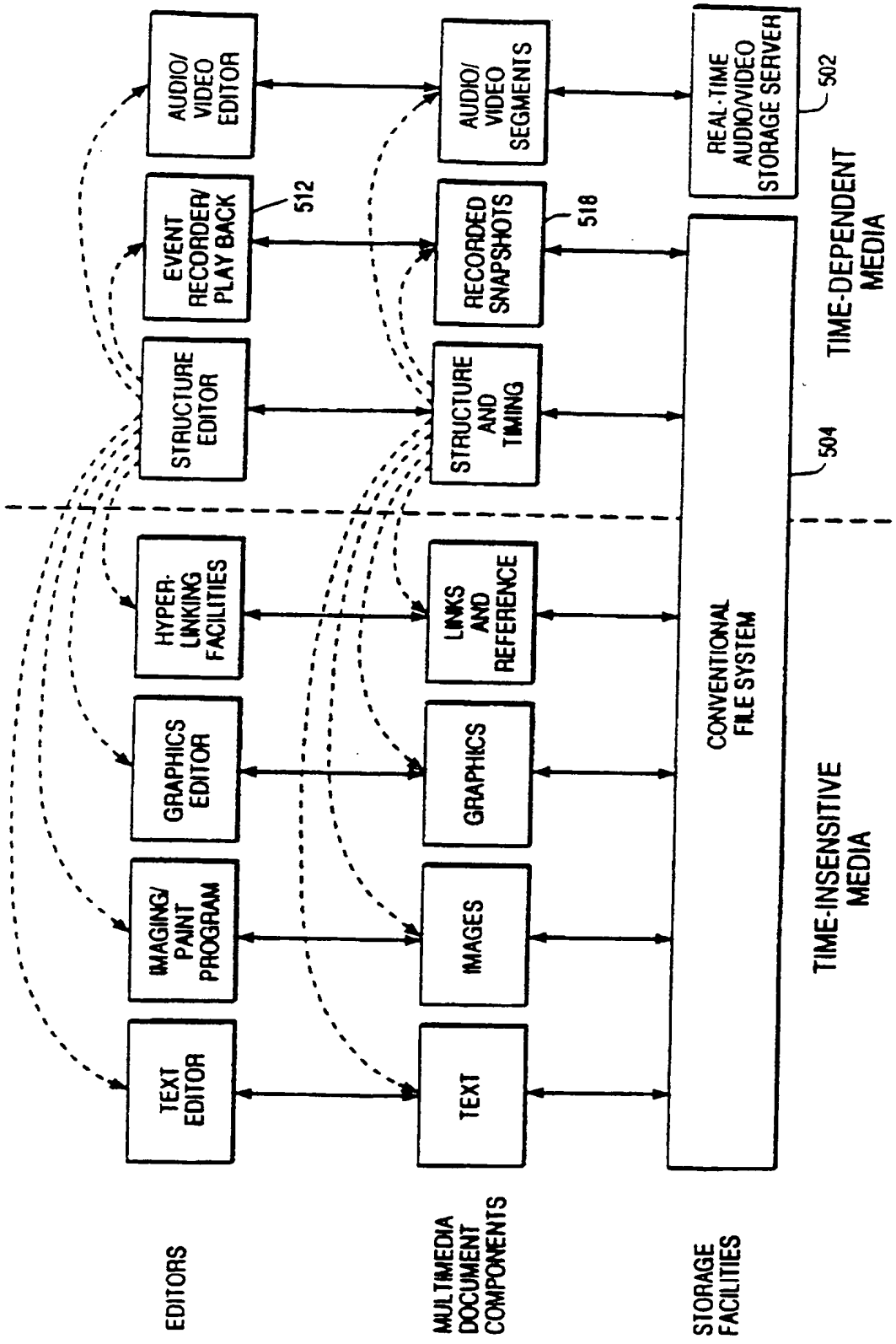
EDITORS
MULTIMEDIA DOCUMENT COMPONENTS
STORAGE FACILITIES
TIME-INSENSITIVE MEDIA
TIME-DEPENDENT MEDIA
TEXT EDITOR
IMAGING/ PAINT PROGRAM
GRAPHICS EDITOR
HYPER-LINKING FACILITIES
STRUCTURE EDITOR
EVENT RECORDER/ PLAY BACK
512
AUDIO/ VIDEO EDITOR
TEXT
IMAGES
GRAPHICS
LINKS AND REFERENCE
STRUCTURE AND TIMING
RECORDED SNAPSHOTS
518
AUDIO/ VIDEO SEGMENTS
CONVENTIONAL FILE SYSTEM
504
REAL-TIME AUDIO/VIDEO STORAGE SERVER
502

FIGURE 30

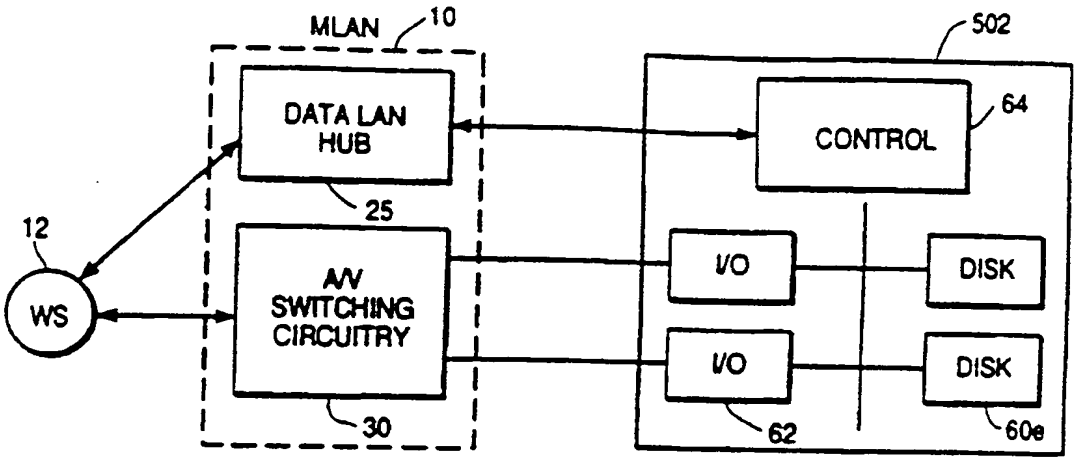

FIGURE 31A

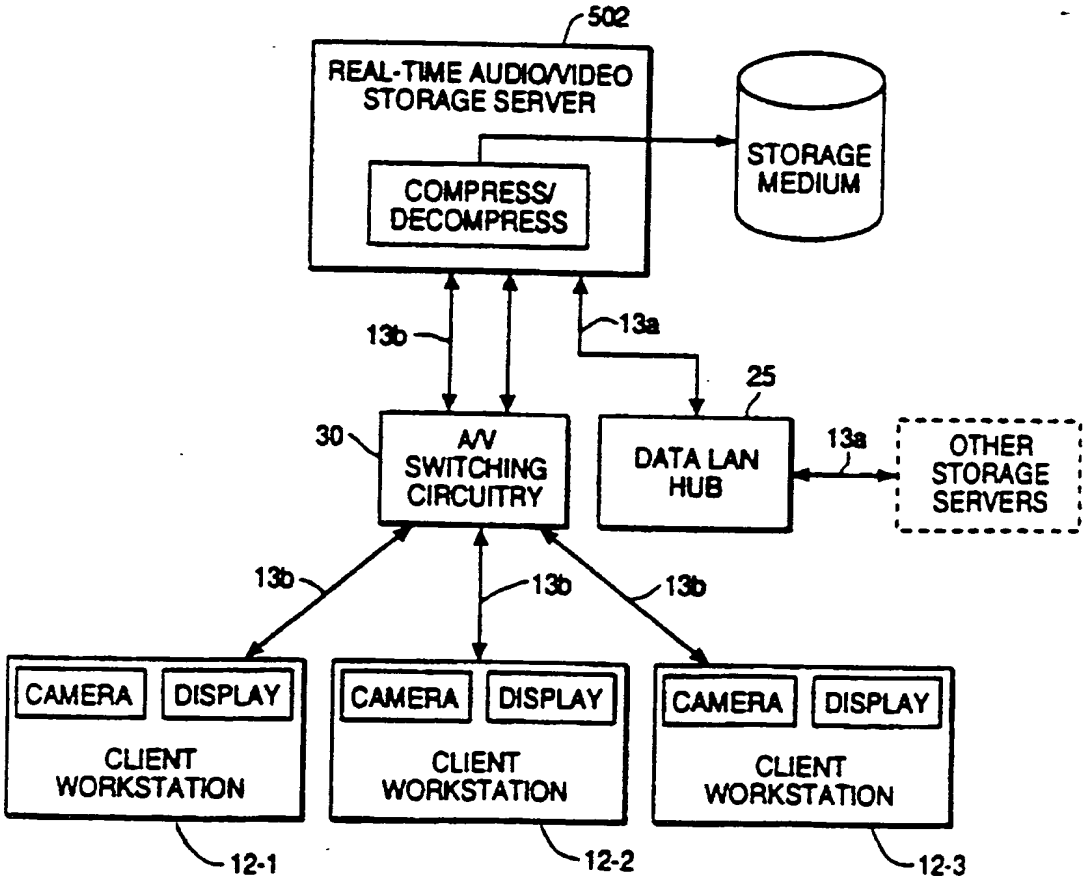

FIGURE 31B

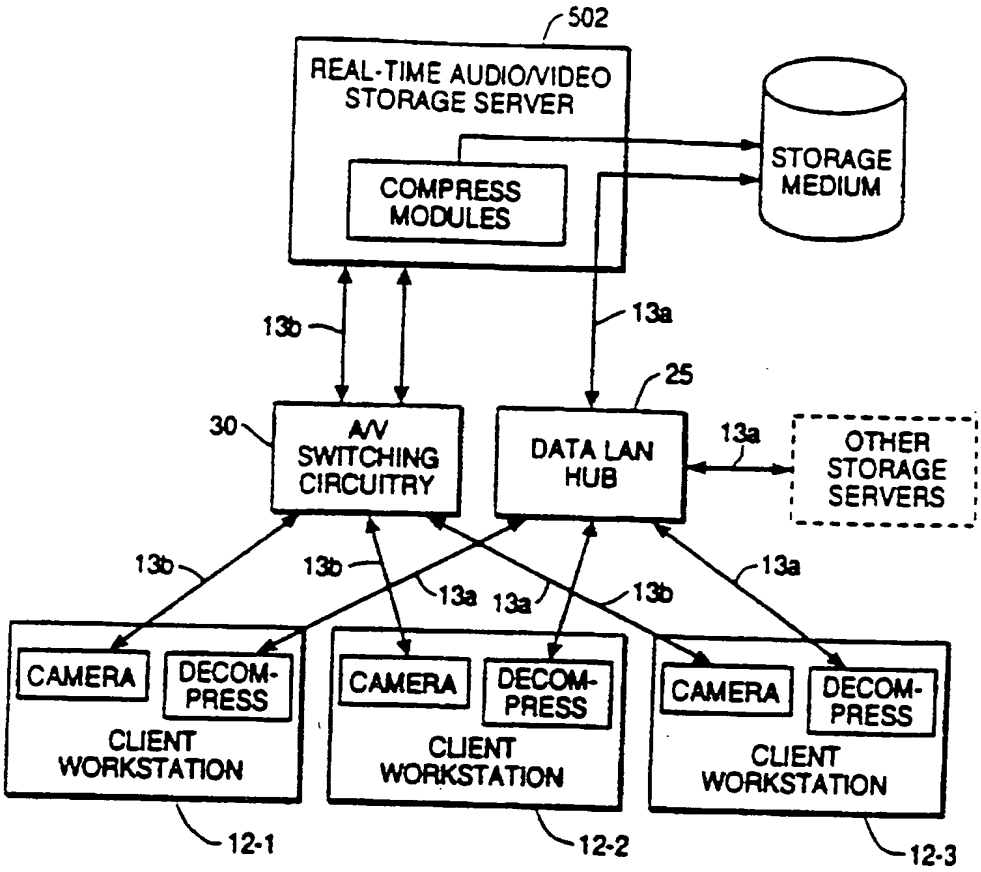

FIGURE 31C

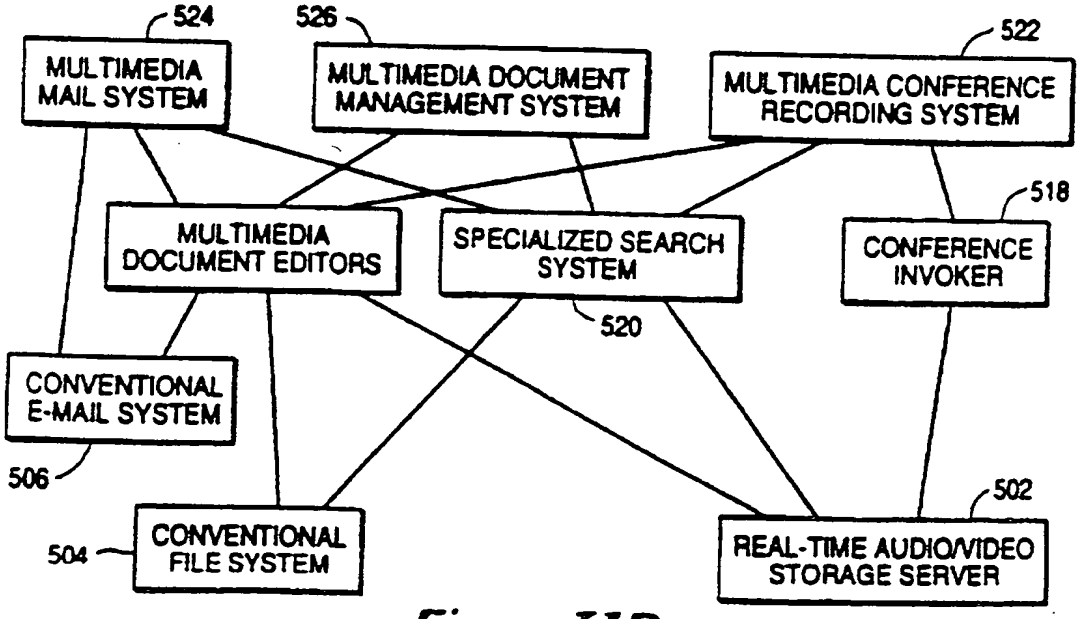

FIGURE 31D

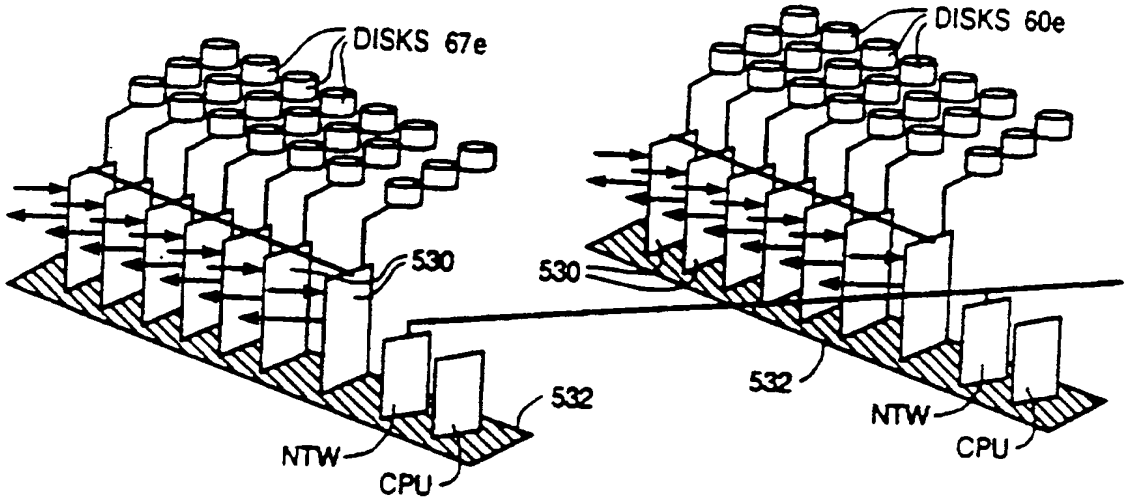

FIGURE 32

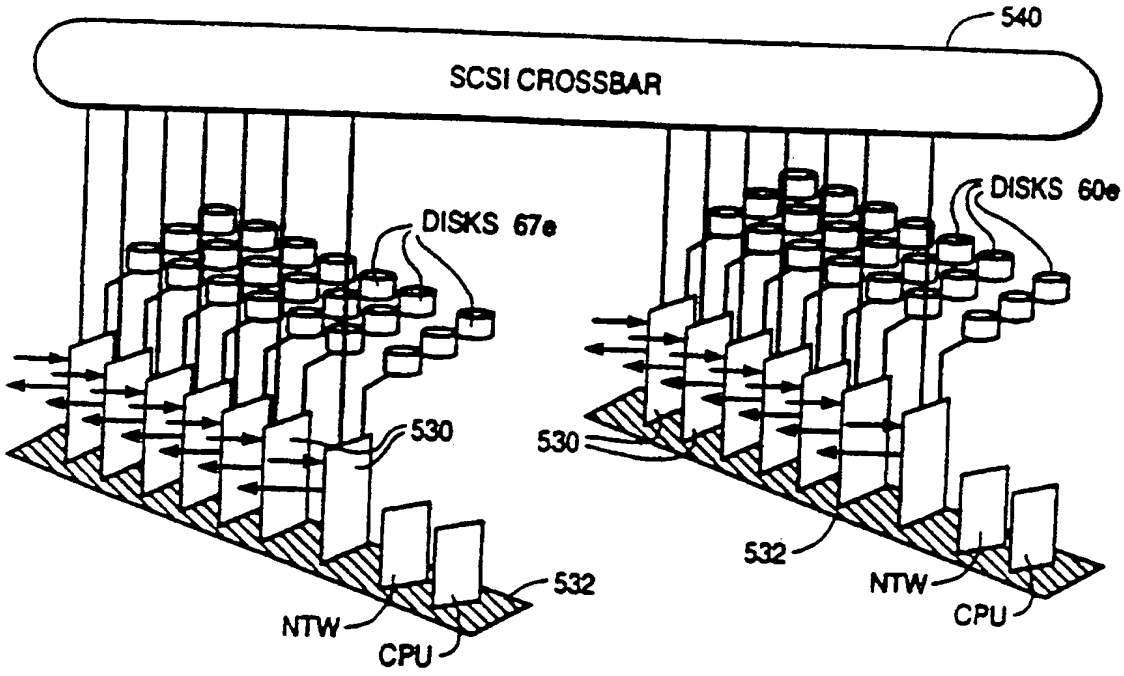

FIGURE 33

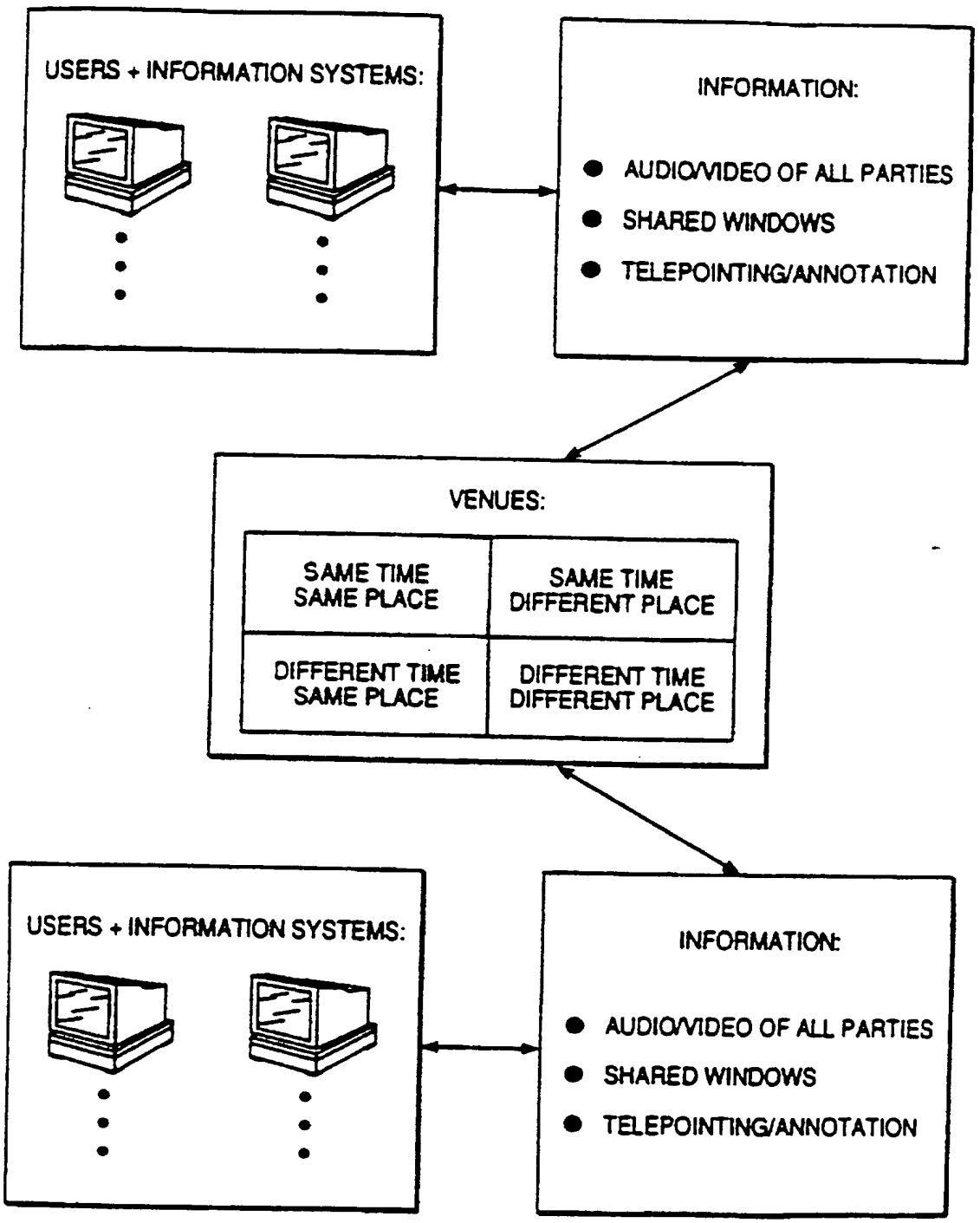
USERS + INFORMATION SYSTEMS:
INFORMATION:
AUDIO/VIDEO OF ALL PARTIES
SHARED WINDOWS
TELEPOINTING/ANNOTATION
VENUES:
SAME TIME SAME PLACE
SAME TIME DIFFERENT PLACE
DIFFERENT TIME SAME PLACE
DIFFERENT TIME DIFFERENT PLACE
USERS + INFORMATION SYSTEMS:
INFORMATION:
AUDIO/VIDEO OF ALL PARTIES
SHARED WINDOWS
TELEPOINTING/ANNOTATION

FIGURE 34

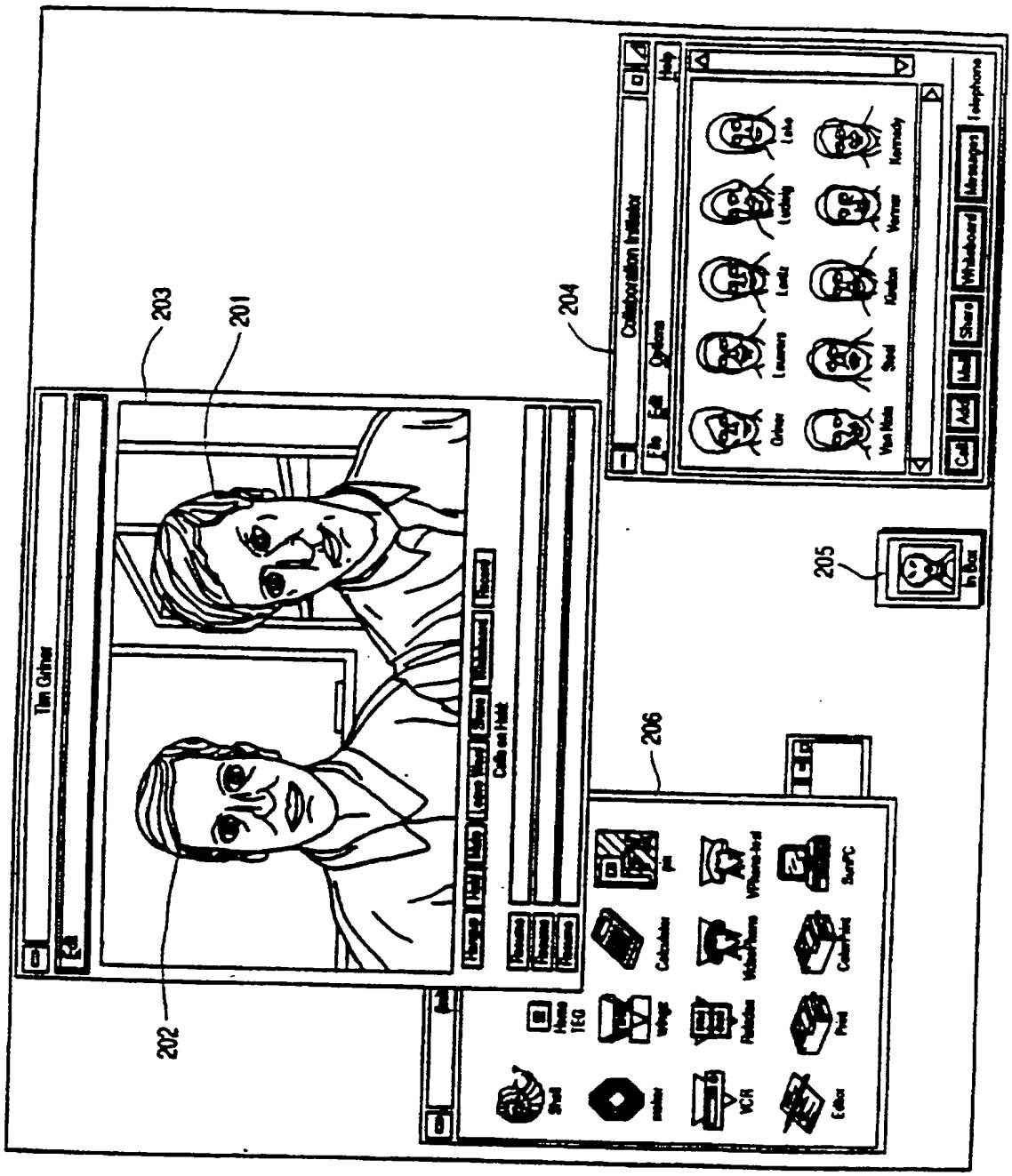

FIGURE 35

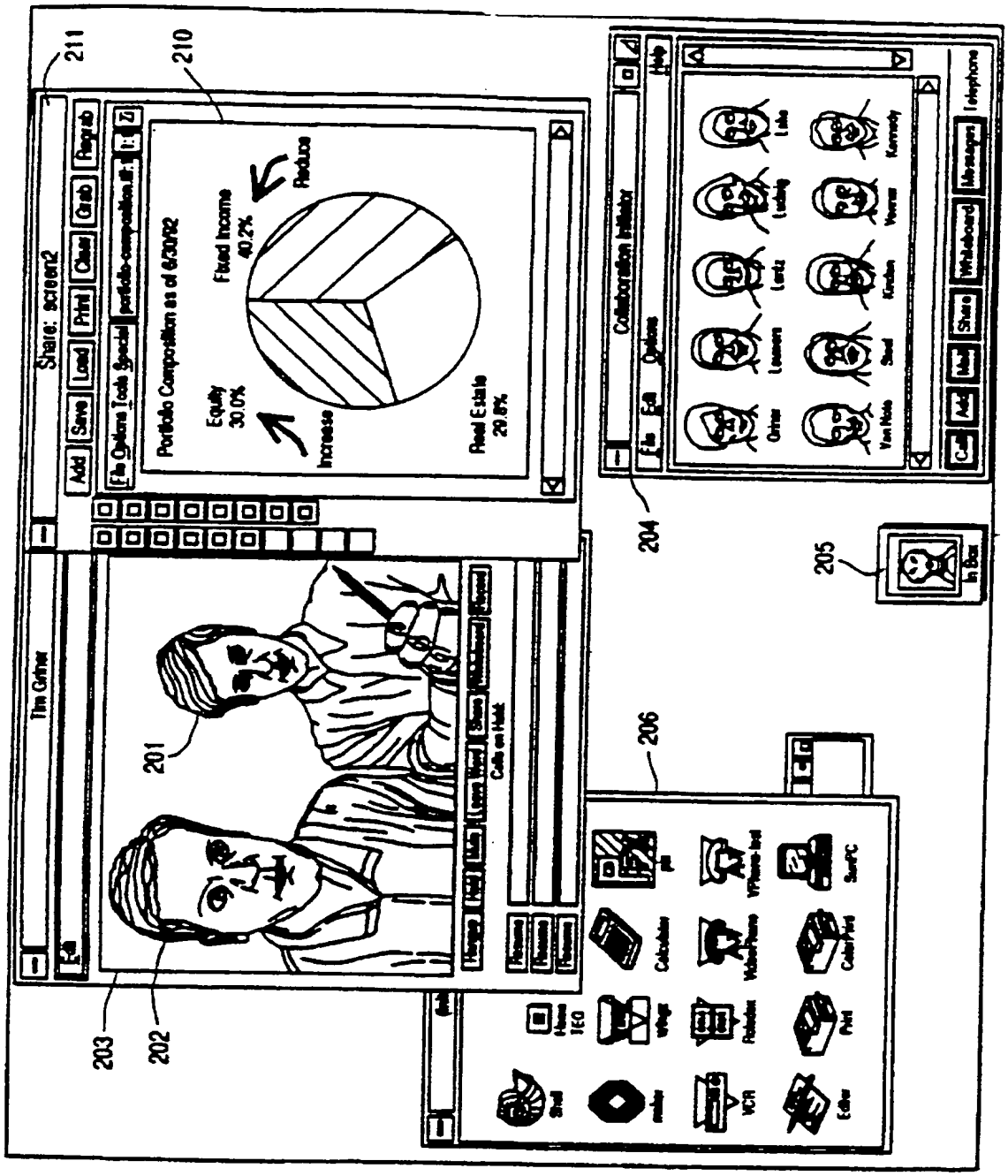
211
210
Share: screen2
Add
Save
Load
Print
Clear
Grab
Regrab
Portfolio Composition as of 6/30/02
Fixed Income
40.2%
Reduce
Equity
30.0%
Increase
Real Estate
29.8%
Collaboration Initiator
204
205
In Box
206
201
202
203

FIGURE 36

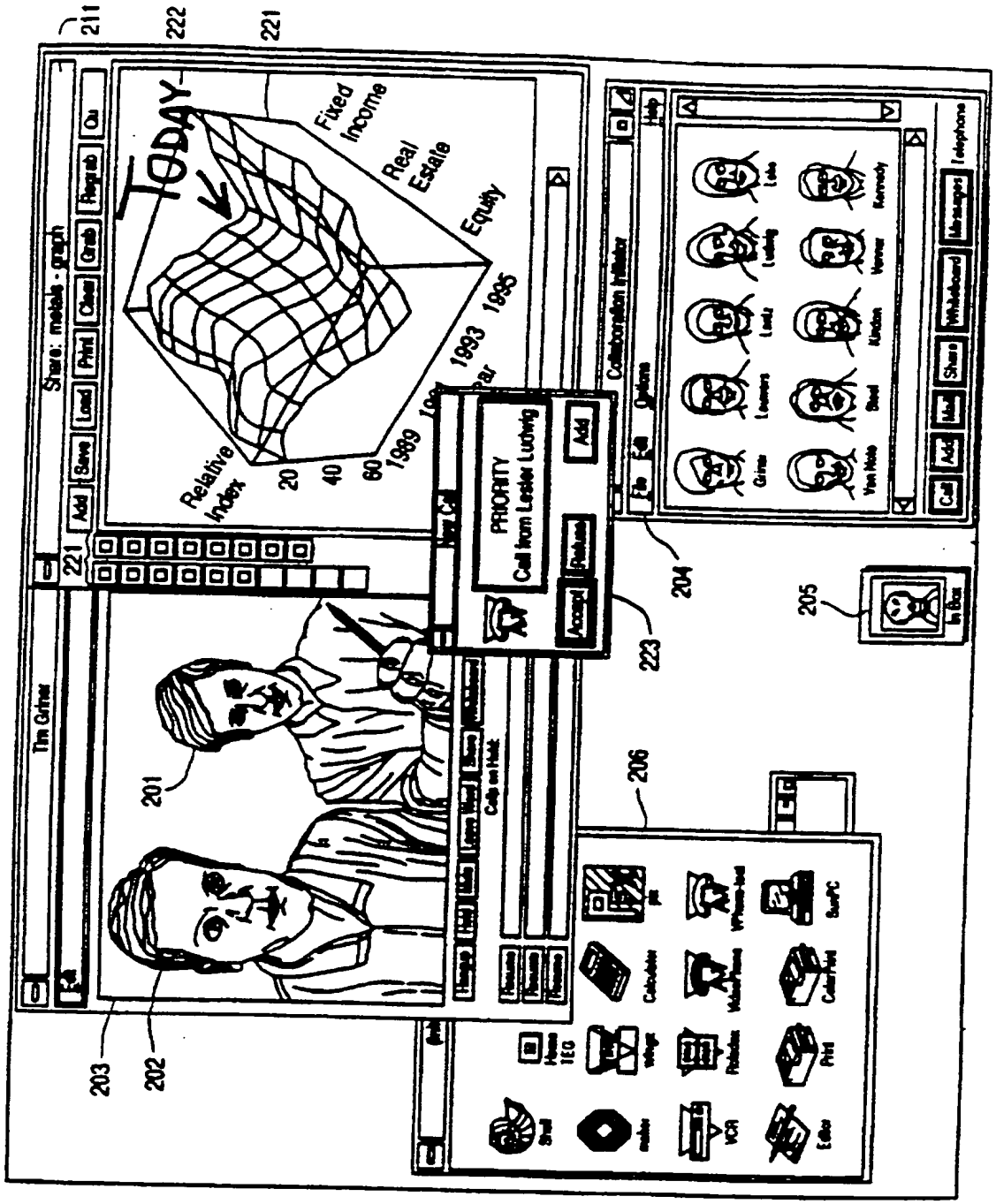
211
222
221
TODAY
Fixed Income
Real Estate
Equity
Relative Index
20
40
60
1989
1993
1995
Share: models - graph
Add
Save
Load
Print
Clear
Graph
Regraph
Tim Grimer
PRIORITY
Call from Leslie Ludwig
Add
Accept
Reject
Collaboration Initiator
Help
File
Edit
Options
Call
Add
Mail
Share
Whiteboard
Messages
Telephone
Lee
Ludwig
Ludz
Lawrence
Grimes
Kennedy
Kirsten
Bond
Horner
Van Hoide
201
202
203
204
205
206
223
Inbox
Calculator
Print
VCR

FIGURE 37

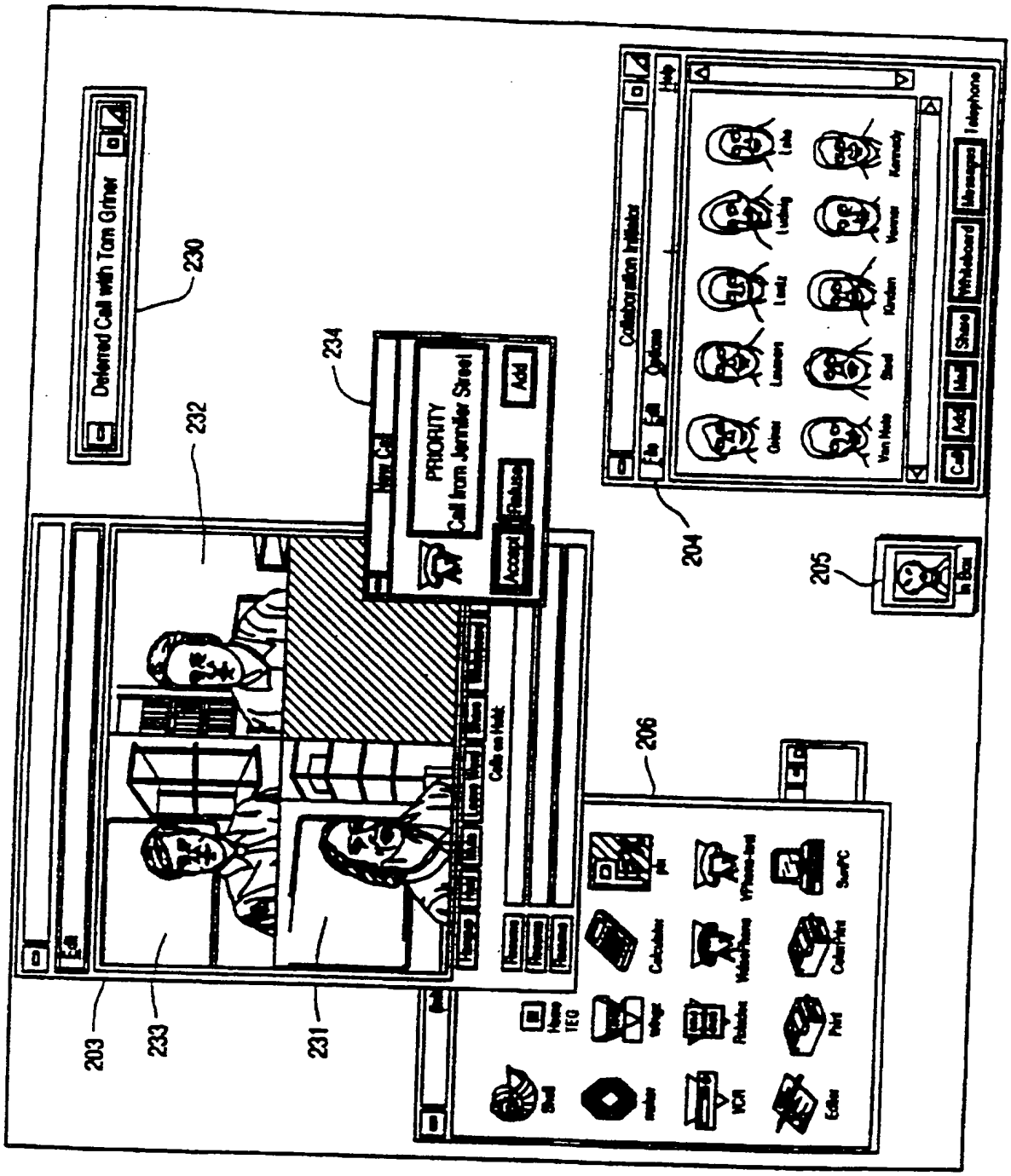
Deferred Call with Tom Grimer
230
234
232
PRIORITY
Call from Jennifer Street
Add
Accept
Reject
204
205
206
203
233
231

FIGURE 3B

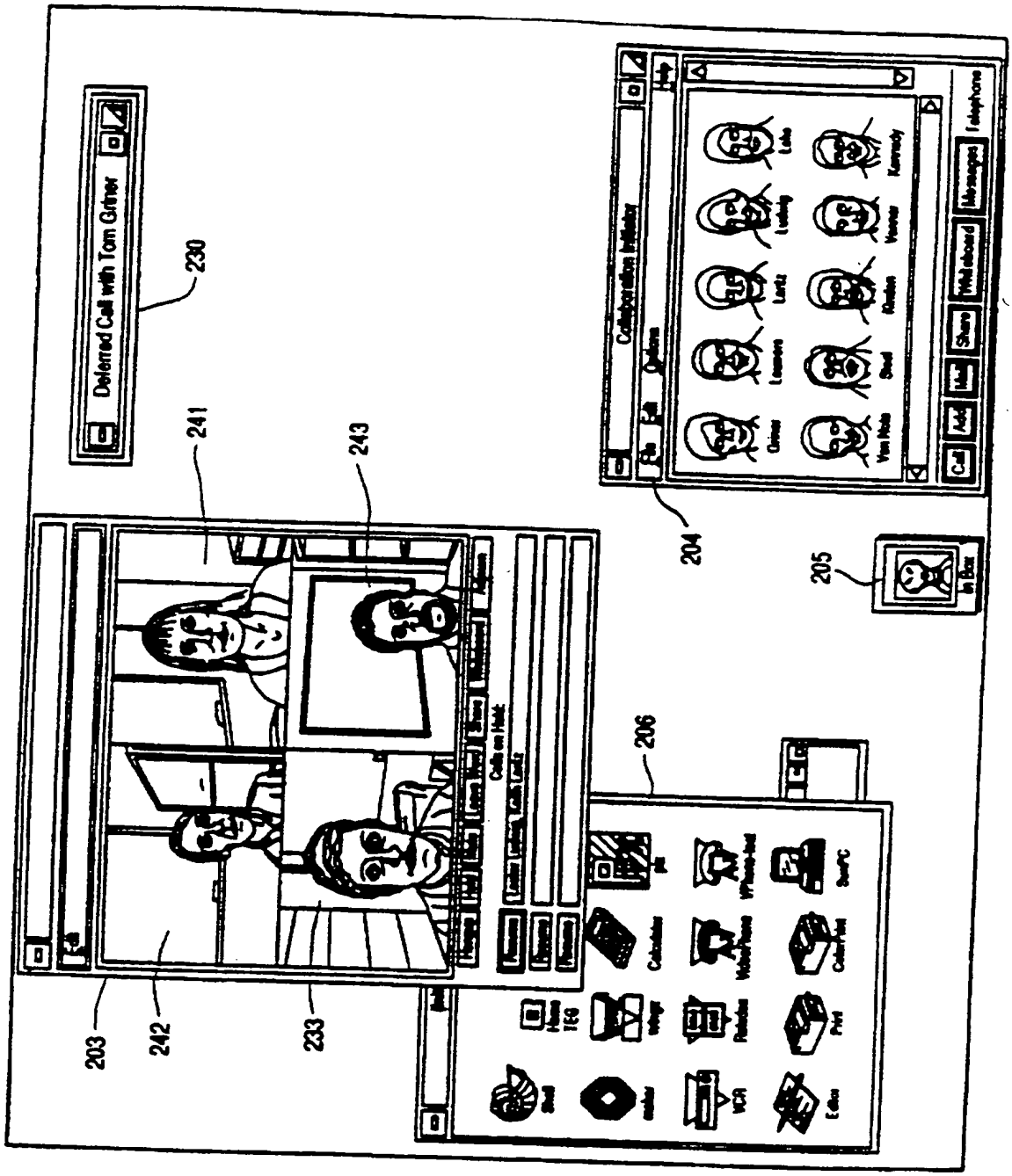
Deferred Call with Tom Griner
230
241
243
204
205
206
203
242
233

FIGURE 39

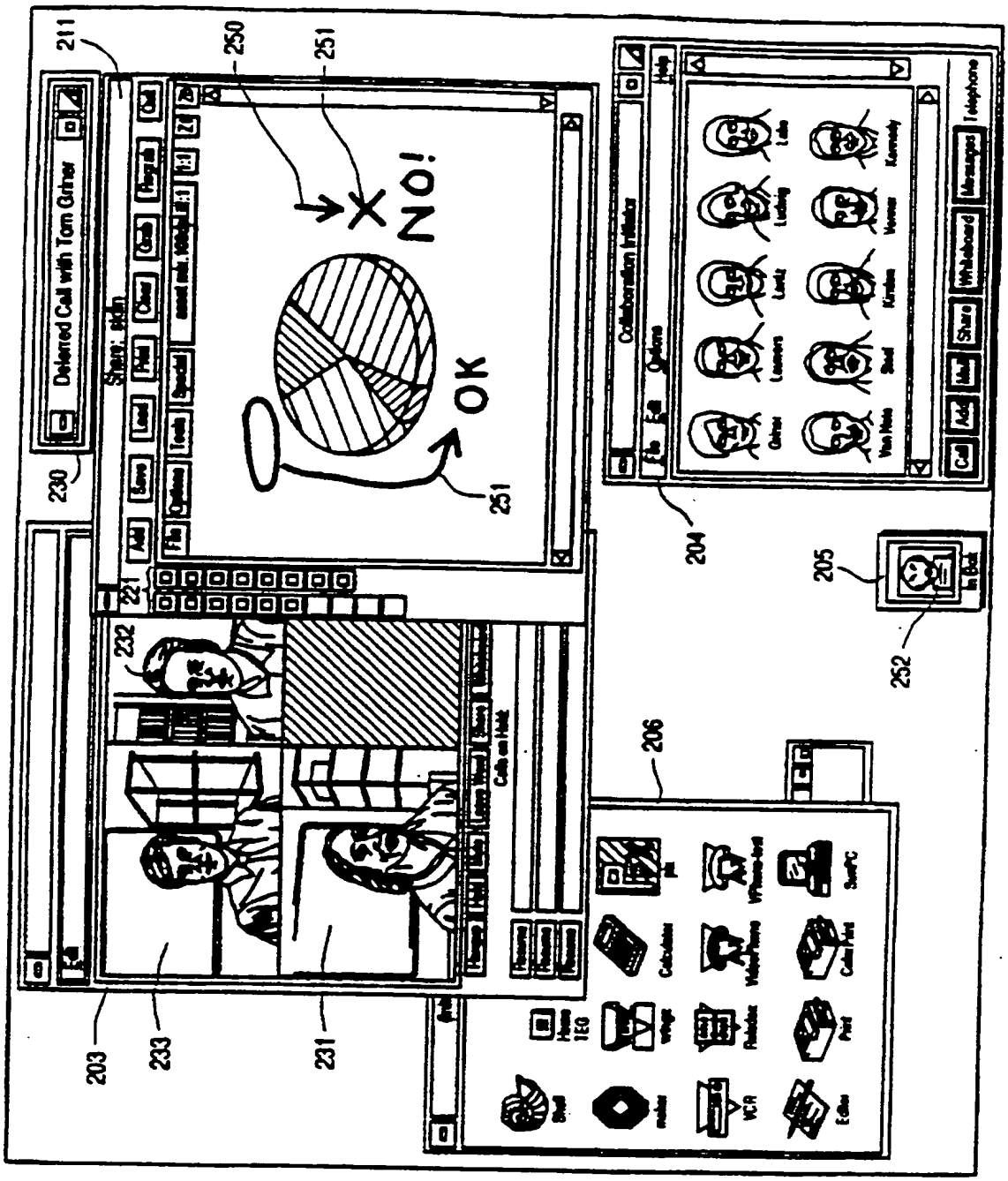
211
250
251
NO!
OK
251
230
204
205
252
206
203
233
231
232
221
Deferred Call with Tom Ortner
Collaboration Folders
Telephone
Messages
Whiteboard
Share
Mail
Call
Add
In Box
Cable
Set-Top
DVD
VCR
Stereo
Phone
Fax
Camera
Printer

FIGURE 40

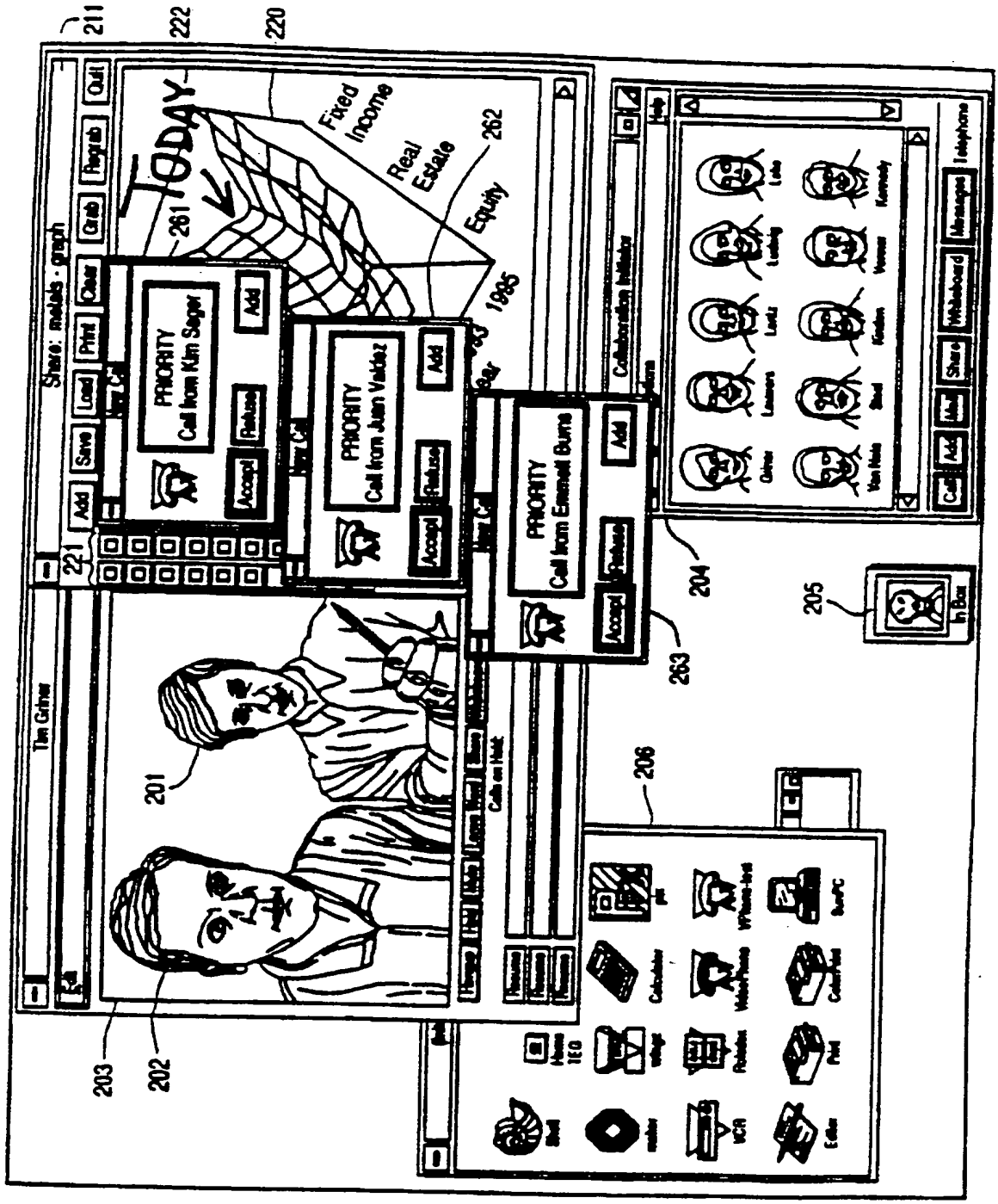
211
222
220
TODAY
Fixed Income
Real Estate
Equity
262
261
1985
PRIORITY
Call from Kim Sieger
PRIORITY
Call from Juan Valdez
PRIORITY
Call from Emmett Burns
Add
Accept
Reject
Share: models - graph
Tim Griver
201
202
203
204
205
206
221
263
In Box

FIGURE 41

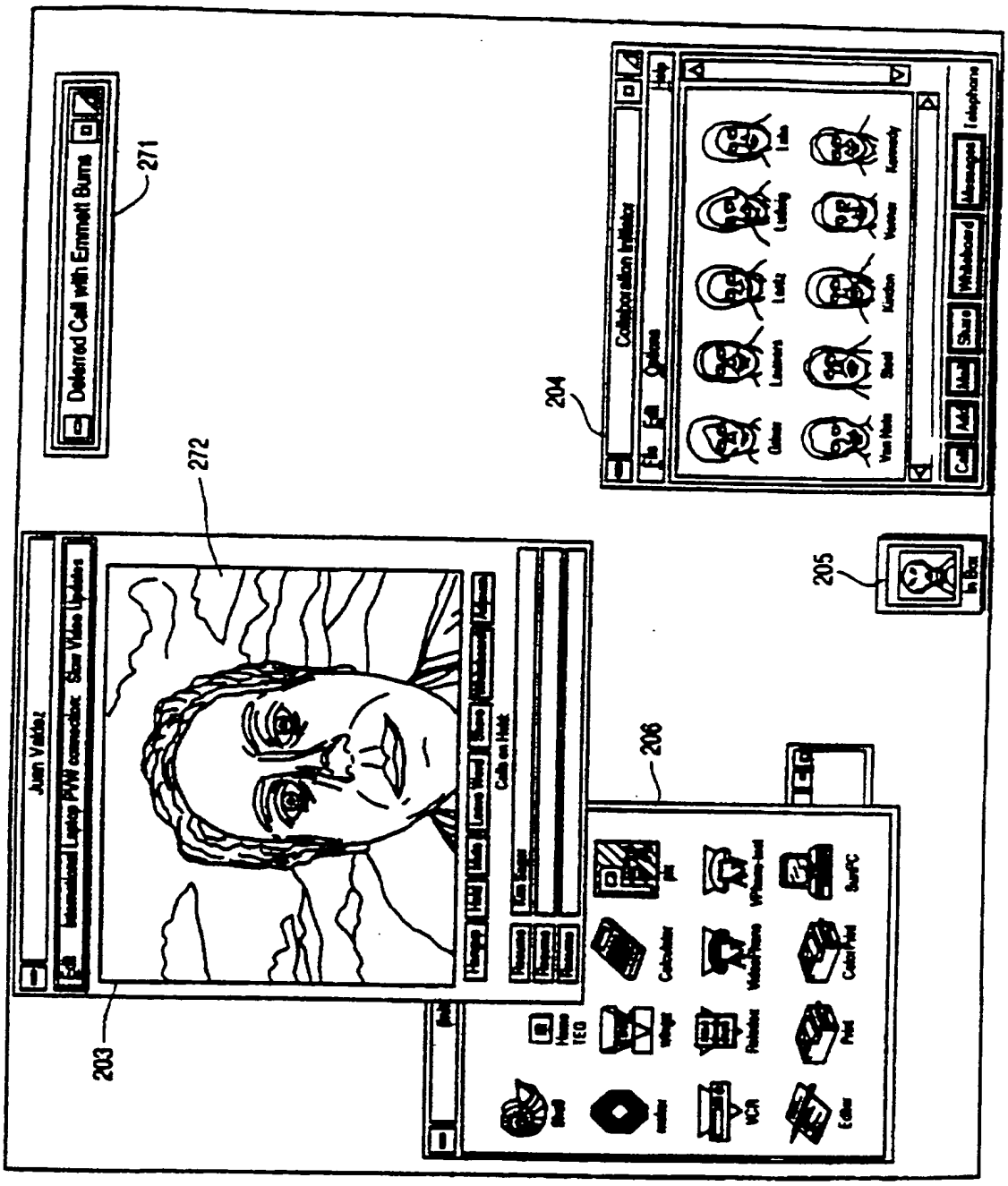
271
272
204
205
206
203
Delayed Call with Emmett Burns
Collaboration Initiator
Juan Valdez
In Box

FIGURE 42